feed seed fertilizer REPORT 1985

GOVERNMENT DOCUMENT
COLLECTION
NOV 5 1986
University of Massachusetts
Depository Copy

MASSACHUSETTS
DEPARTMENT OF FOOD & AGRICULTURE
100 Cambridge St., Boston, Mass. 02202

Massachusetts grown... and fresher!

Publication #14,357-57-300-3-86-C.R. Approved by Daniel D. Carter, State Purchasing Agent

PREFACE

This publication consists of reports of the work assigned to the Massachusetts Agricultural Experiment Station by authority of the Feed Act (General Laws, Chapter 128, Sections 51 to 63 inclusive), the Seed Act (General Laws, Chapter 128, Section 84 to 100 inclusive), and the Fertilizer and Liming Materials Act (General Laws, Chapter 128, Section 64 to 83 inclusive).

Included are Feed Report (Number 90) for the year 1985, Seed Laboratory Report (Number 58) for the year 1985, and the Fertilizer and Liming Material Report (Number 111) for the year 1985.

For information concerning this report on the analyses of feeds, seeds, fertilizers, liming materials, and for information concerning certification of milk fat testing equipment and certification of operators of milk fat testing equipment, please write to:

Official Chemist
Feed, Seed, Fertilizer Lab.
University of Massachusetts
West Experiment Station
Amherst, MA 01003

Regulatory Information

Feed, Seed, Fertilizer Control Official: Registration of Feed, Fertilizer, and Liming Products write to:

James M. Cassidy
Control Officer
Massachusetts Department of Food & Agriculture
100 Cambridge Street
Boston, Massachusetts 02202

Telephone: 617-727-3018

For information concerning companies registered for the year please contact the Control Officer at the above address.

INDEX

	Pages
Inspection of Commercial Feedstuffs for 1985	1-11
Seed Laboratory Report for 1985	12-26
Inspection of Commercial Fertilizers and Agricultural Liming Materials	27-42
Registration for 1985	
Feed	43-48
Commercial Fertilzer	49
Speciality Fertilizer	50-53
Limestone	54

DEPARTMENT OF FOOD AND AGRICULTURE REGULATORY
STAFF, BUREAU OF FARM PRODUCTS

James M. Cassidy, Chief - Control Officer
George M. Porter - Chief Market Investigator
Charles A. Batts - Market Investigator
Raymond Bellemare - Market Investigator
Daniel J. Burns - Market Investigator
Earl H. Goodrich - Market Investigtor
Kenneth S. Williams, Jr. - Market Investigator

INSPECTION OF COMMERCIAL FEEDSTUFFS

Report Number 90 for the Fiscal Year

Ending 1985

By the Feed Laboratory Staff

of the Feed, Seed, and Fertilizer Laboratory

West Experiment Station, Amherst, MA 01003

UNIVERSITY OF MASSACHUSETTS
COLLEGE OF FOOD & NATURAL RESOURCES
AGRICULTURAL EXPERIMENT STATION

Director, E. Bruce MacDougall

FEED & FERTILIZER STAFF:

Edward F. Vlach, Official Chemist in Charge
*Ralph M. Morgan
Paul Korpita, Senior Chemist
David Houle, Assistant Chemist
John Melnick, Technical Assistant
**Janice M. Murphy, Senior Clerk & Stenographer

*Retired
** Resigned

Brands Substantially Complying with Guarantees

Manufacturer & Brand	Number Samples Analyzed
AGWAY, INC.	
Agway Country Game & Turkey Feed Pellets	2
Agway Country Turkey Grower (1P)	3
Agway Country Game & Turkey Breeder	4
Agway Country Game & Turkey Grower Pellets	2
Agway Country Game & Turkey Grower	8
Agway Big Red Special Rabbit Pellets	7
Agway T.R.C. #11	4
Agway Country Game & Turkey Feed	13
Agway Early Market Lamb Pellets	2
Agway 48% Solvent Extracted Soybean Meal	2
Agway Ratio-Right 400-20 for Cows	4
Agway Champion for Livestock	1
Agway Ratio-Right 501-16 for Cows	3
Agway Ratio-Right 450-20 for Cows	2
Agway T.R.C. #1	1
Agway Ratio-Right 401-20 for Cows	1
Agway Choice Pellets	1
Agway Pro-Right 2000-40 for Ruminants	3
Agway Country Game & Turkey Starter	4
Agway NU-Cashmaker 18 Pellets	1
Agway Pro-Right 4000-22	3
Agway Crimped Oats & Molasses	1
Agway Pro-Right 3500-24	1
Agway Pro-Right 2500-32 HMC Balancer	1
Agway Pro-Right 5000-18	3
Agway Pro-Right 4500-20	8
Agway Country Game & Turkey Starter-Bits	1
Agway Pro-Right 550-16	11
Agway Calf Grower	1
Agway 22% Hi-Pro	1
Agway Milk-Right 16	3
Agway Milk-Rite 18	1
Agway Franklin 16	1
Agway Crunchy 16	1
Agway Milk-Maker 16	1
Agway Country Chicken Grower Bits	1
Agway Country Egg Layer Bits	6
Agway Broiler Finisher (Mn 90)	1
Agway Country Egg Layer Pellets	8
Agway Country Egg Producer	1
Agway Country Egg Layer	4
Agway Country Chicken Grower	3
Agway Country Egg Layer Shorts	2
Agway Country Egg Layer Mash	6
Agway Ratio-Right 550-16 for Horses	1
Agway Complete Horse Feed Pellets	2
Agway Choice for Horses	8
Agway Mare 'N Foal for Horses	5

Brands Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
AGWAY, INC. (Cont'd)	
Agway Performance for Horses	4
Agway Squealer Pellets for Swine	1
Agway 14% Hog Feed (T 20)	10
Agway Pig Starter (MX-PT)	1
Agway 14% Hog Feed Pellets (T 20)	4
Agway 16% Sow & Pig Feed (T 40)	6
Agway Gestating Swine Feed	5
Agway Pig Starter Pellets (MX)	3
Agway 16% Sow & Pig Feed Pellets (T 40)	4
Agway 37% Hog Concentrate	2
Agway Gestating Swine Feed Pellets	1
ALPO PET FOODS, INC.	
Alpo Balanced Blend Dog Food	1
BARBER & BENNETT, INC.	
Fort Orange Chick Starter	1
Fort Orange Horse Feed	1
Fort Orange 16% All Mash Layer	1
Fort Orange Pig & Hog Feed Pellets	1
Fort Orange Complete Rabbit Pellets	1
Fort Orange All Mash Grower	1
Fort Orange Complete Horse Feed Pellets	1
Fort Orange 17% Automatic Egg-mash	1
Fort Orange Dehulled Solvent Extracted Soybean Meal	1
Fort Orange 17% Automatic Egg Crumbles	1
Fort Orange 17% Automatic Egg Pellets	1
BEATRICE GROCERY PRODUCTS, INC.	
ANF Puppy Food	1
BERNARDSTON GRAIN MILL, INC.	
Excel Laying Mash	1
Excel 16% Dairy Ration	1
Excel Fitting Ration	1
Excel Chicken Grower	1
Excel Laying Mash	1
Provender	1
Steer Feed with Molasses	1
THE CARNATION CO.	
Rabbit Family Ration 18 Pellets	1
Calf Manna Pellets	1
Egg Maker 15 Pellets	1
Double Duty Rabbit Pellets	2
Round-Up Pellets	1
Duck Grower & Breeder Pet Pellets	1
Guinea Pig Pellets	1

Brands Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
THE CARNATION CO. (Cont'd)	
Family Farm Egg Maker 15 Pellets	1
Trip - L - Duty Pakett Mash	1
Carnation Calf Manna	1
Carnation Calf Manna Concentrated Ration	2
FLORY MILLING CO.	
Milk Flo 16% Special Dairy Mash	1
Sweet 16% Special Pellets	1
Flory 16% Sow Pellets	1
Grow & Egg Pellet	1
Flory Turkey Grower	1
Flory 17% Rabbit Pellet	1
KAYTEE PRODUCTS, INC.	
Gerbil Food	1
MAPLE LEAF MONARCH CO.	
Double Diamond Linseed Oilcake Meal	1
MARTIN'S FEED MILLS, INC.	
Bench 'N Field 26	1
Bench 'N Field Dog Food 26	1
Bench & Field Dog Food Concentrated Pellets	1
RALSTON PURINA CO.	
Purina Horse Chow #200 Pellet	2
Purina Game Bird Breeder Layena Bits	1
Purina Chick Growena	1
Purina Rabbit Chow Complete Blend	2
Purina New Generation Turkey Growena #2	1
Purina Horse Hay Replacer	1
Purina Chick Growena	1
Purina Duck Growena	1
Purina New Generation Turkey Marketer Bits	1
Purina Pigeon Chow Checkers	1
Purina High Protein Monkey Chow	1
Purina Pig Starter Chow	3
Purina Pure Pride #100	1
Purina Layena Poultry Feed	3
Purina Hi Pro Dog Food	1
Purina Hi O Lactation Chow	1
Purina Pork Finisher	2
Purina Game Bird Flight Conditioner	1
Purina Game Bird Startena	1
Purina Layena Bits	1
Purina Bird Chow	1
Purina Pure Pride #200	1
Purina Guinea Pig Chow Pellet	1

Brands Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
RALSTON PURINA CO. (Cont'd)	
Purina Rabbit Chow Performance Pellet	1
Purina Scratch Grains	1
Purina Horse Chow 100 Pellet	3
UNITED CO-OPERATIVE FARMERS, INC.	
UCF Complete Layer	2
UCF Complete Layer Crumbles	7
UCF Complete Layer Mash	7
UCF Complete Layer Pellets	7
UCF Hog Grower Mash	2
UCF Hog Grower Pellets	10
UCF Fit 'N Show Pellets	2
UCF 16 Profitmaker	8
UCF Turkey Starter B	2
UCF Turkey Finisher	8
UCF 20 Profitmaker	6
UCF Pig Starter Pellets	6
UCF Wheat Bran	4
UCF Rabbit Pellets	9
UCF Turkey Grower	2
UCF Turkey Grower Pellets	3
UCF Tizwhiz Horse Feed	3
UCF Calf Grower #1 Pellets	1
UCF AM Grower	3
UCF Complete Broiler	4
UCF Tizwhiz Horse Feed Pellets	2
UCF AM Grower Crumbles	1
UCF Pride Pellets Complete Horse Feed	7
UCF AM Grower Mash	1
UCF Soybean Meal	1
UCF Pig Starter	1
UCF AM Grower Pellets	3
UCF Pride Complete Horse Feed	2
UCF 18% HE-LS Pellets	1
UCF 20 Dairy Pellets	1
UCF 16 Test HE-LS Pellets	1
VENTURA GRAIN CO.	
Every Day Coarse 16 Test Cow & Livestock Ration	1
Every Day Coarse 14 Test Cow & Livestock Ration	1
Every Day Turkey Starter	1
Every Day 16% Dairy Pellets	2
Every Day 20% Dairy Pellets	1
Every Day Complete Layer 16 Mash	2
Every Day Complete Grower	1
Every Day Hog Feed	1
Every Day 20% Pigeon Feed Pellet	1
Every Day Complete Layer 16 Pellet	3

Brands Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
VENTURA GRAIN CO. (Cont'd)	
Every Day Hog Feed Pellet	1
Every Day Formula 1100 Horse Pellet	1
Every Day Complete Grower Bits	1
Every Day Rabbit Pellets	1
Every Day Turkey Finisher 17% Pellet	1
H. K. WEBSTER CO.	
Blue Seal Nip 'N Tuck Dog Food	1
Blue Seal Krunchies Dog Food	2
Blue Seal Piglet Crumbles	1
Blue Seal Pig & Sow Pellets	14
Blue Seal Pork Maker Mash	4
Blue Seal Turkey Grower Pellets	5
Blue Seal A-1 Pigeon Feed	1
Blue Seal Lamb Starter-Grower Pellets	8
Blue Seal Solvent Extracted Soybean Meal	2
Blue Seal Song Maker	1
Blue Seal Scratch Feed	1
Blue Seal Breeder Pellets	1
Blue Seal Avi. Pellets	2
Blue Seal Grower Cal Mash	3
Blue Seal Energizer 20 Dairy Pellets	2
Blue Seal Milk Maker 20 Dairy Pellets	2
Blue Seal Natural 40 Dairy Pellets	1
Blue Seal Provender	1
Blue Seal Fat & Finish Pellets	4
Blue Seal Sunshine Supplement Pellets	2
Blue Seal Broiler Crumbles	7
Blue Seal Layer Mash	10
Blue Seal Chick Starter	1
Blue Seal Layer Pellets	12
Blue Seal Grower Cal Pellets	5
Blue Seal Strider Horse Feed Pellets	4
Blue Seal Bunny 16 Rabbit Pellets	5
Blue Seal Hi-Pro 20 Rabbit Pellets	11
Blue Seal Hutch 18 Rabbit Pellets	9
Blue Seal Hi-Test 16 Dairy Pellets	1
Blue Seal Milk Maker 16 Dairy Pellets	6
Blue Seal Trotter Complete Horse Ration	11
Blue Seal Contender Horse Feed Pellets	8
R. R. WIRTES FARM	
R & R Sweet Feed	1
R & R Fitting Ration	1

Brands Not Conforming to Guarantees

Manufacturer & Brand	PROTEIN Guarantee	PROTEIN Found
AGWAY, INC.		
Agway Pro-Right 2000-40	40	36.9 **
Agway Pro-Right 2000-40	40	38.7 **
Agway Pro-Right 2000-40	40	38.3 **
Agway Pro-Right 2000-40	40	34.2 **
Agway Country Egg Layer	16	20.4 ***
Agway Milkmaker 16	16	19.6 ***
Agway Mare 'N Foal	18	21.9 ***
BERNARDSTON GRAIN MILL, INC.		
Steer Feed	12	16.3 ***
Steer Feed with Molasses	12	10.7 **
Starter & Grower	18	16.5 **
Excel Laying Mash	16	14.5 **
Excel Laying Mash	16	10.5 **
THE CARNATION CO.		
Challenge 14	14	11.4 **
FLORY MILLING CO.		
Flory's 12% All in One Pellet	12	17.2 ***
Flory's 12% All in One Pellet	12	17.2 ***
INTERNATIONAL MULTIFOOD CORP.		
Blackhawk Wheat Bran w/wheat	13.5	18.9 ***
OLD FOX CHEMICAL CO.		
Old Fox Liquid Pro 32%	32	28.1 **
Old Fox Liquid Pro 32%	32	35.5 ***
RALSTON PURINA CO.		
New Generation Turkey Finisher #1	17	20.6 ***
UNITED CO-OPERATIVE FARMERS, INC.		
UCF Hay Extender	10	13.4 ***
UCF Complete Broiler	21	24.7 ***
UCF Hay Extender	10	13.8 ***
UCF 40 Dairy Supplement	40	38.5 **
UCF Hay Extender	10	14.2 ***
H. K. WEBSTER CO.		
Blue Seal Pork Maker	13	16.3 ***
Blue Seal Peanut Hearts	24	29.9 ***
Blue Seal Peanut Hearts	24	31.0 ***
Blue Seal Hutch Pellets	18	16.9 **
R. R. WIRTES FARM		
R & R Poultry Mix	17	14.4 **
R & R 15% Horse & Dairy	15	12.8 **

Brands Not Conforming to Guarantees (Cont'd)

Manufacturer & Brand	PROTEIN Guarantee	PROTEIN Found
R. R. WIRTES FARM (Cont'd)		
R & R Poultry Mix	17	14.7 **

**Deficient

***Excessive

Brands Containing Drugs

Manufacturer & Brand	Drug	Guaranteed % or g/T	Found % or g/T
AGWAY, INC.			
Agway TCR #1 Total Calf Ration	Chlortetracycline	18 g/T	0 ** g/T
Agway TCR #1 Total Calf Ration	Chlortetracycline	18	16
Agway TCR #1 Total Calf Ration	Chlortetracycline	18	10 **
Agway TCR #1 Total Calf Ration	Chlortetracycline	18	14
Agway TCR #1 Total Calf Ration	Chlortetracycline	18	16
Agway TCR #1 Total Calf Ration	Chlortetracycline	18	15
Agway TCR #1 Total Calf Ration	Chlortetracycline	18	16
Agway TCR #1 Total Calf Ration	Chlortetracycline	18	19
Agway TCR #1 Total Calf Ration	Chlortetracycline	18	19
Agway TCR #1 Total Calf Ration	Chlortetracycline	18	18
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	32 **
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	32 **
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	49
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	40
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	47
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	47
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	43
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	38
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	50
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	44
Agway Red Label Milk Replacer	Chlortetracycline	150	157
Agway Red Label Milk Replacer	Chlortetracycline	150	157
Agway Country Chick Starter	Amprolium	.004%	.0022% **
Agway Country Chicken Grower	Amprolium	.004	.0031

Brands Containing Drugs (Cont'd)

Manufacturer & Brand	Drug	Guaranteed % or g/T	Found % or g/T
AGWAY, INC. (Cont'd)			
Agway Country Chicken Grower	Amprolium	.004%	.0039%
Agway Country Chicken Grower	Amprolium	.004	.0035
Agway Country Chick Starter	Amprolium	.004	.0036
Agway Country Chicken Grower	Amprolium	.004	.0036
Agway Country Chicken Grower	Amprolium	.004	.004
Agway Country Chick Starter	Amprolium	.004	.0039
Agway Country Chick Starter	Amprolium	.004	.0038
Agway Country Chick Starter	Amprolium	.004	.0048
Agway Country Chick Starter	Amprolium	.004	.004
Agway Country Chicken Grower	Amprolium	.004	.0043
Agway Country Chicken Grower	Amprolium	.004	.0038
Agway Country Chicken Grower	Amprolium	.004	.0033
Agway Country Chicken Grower	Amprolium	.004	.0036
Agway Turkey Starter	Amprolium	.0125	.0103
Agway Country Broiler Maker	Amprolium	.0125	.0105
Agway Country Broiler Maker	Amprolium	.0125	.0120
Agway Country Broiler Maker	Amprolium	.0125	.0115
Agway Country Broiler Maker	Amprolium	.0125	.0118
Agway Country Broiler Maker	Amprolium	.0125	.0110
Agway Blue Label Milk Replacer	Oxytetracycline	100 g/T	82 g/T
RALSTON PURINA CO.			
Purina New Generation Turkey Growena	Amprolium	.0125%	.0088% **
Purina Chick Startena	Amprolium	.0125	.0105
Purina Chick Starter-Grower	Amprolium	.008	.0073
Purina Chick Startena	Amprolium	.0125	.0130
Purina Broiler Chow	Amprolium	.0125	.0111

Brands Containing Drugs (Cont'd)

Manufacturer & Brand	Drug	Guaranteed % or g/T	Found % or g/T
RALSTON PURINA CO. (Cont'd)			
Purina New Generation Turkey Finisher	Carbazone	.0281%	.0257%
Purina Hog Grower Chow	Oxytetracycline	50 g/T	50 g/T
Purina Hog Grower Chow	Oxytetracycline	50 g/T	42 g/T
Purina Hog Grower Chow	Oxytetracycline	50 g/T	some ****
	Chlortetracycline	0 g/T	100 g/T ****
UNITED CO-OPERATIVE FARMERS, INC.			
UCF Chick Starter	Amprolium	.008%	.0064%
UCF Chick Starter	Amprolium	.008	.0060
UCF Chick Starter	Amprolium	.008	.0057 **
UCF Hubbard Broiler Finisher	Amprolium	.0125	.0105
UCF Beacon Broiler Finisher	Amprolium	.0125	.0080 **
UCF Turkey Grower	4-Nitrophenylarsonic Acid	.01875	.00845 **
UCF Turkey Grower	4-Nitrophenylarsonic Acid	.01875	.01350
UCF Turkey Grower	4-Nitrophenylarsonic Acid	.01875	.01300 **
UCF Lamb Finisher	Chlortetracycline	20 g/T	20 g/T
UCF AM Grower	Chlortetracycline	100	84
VENTURA GRAIN CO.			
Every Day Chick Starter	Amprolium	.0125%	.0128%
H. K. WEBSTER CO.			
Blue Seal Turkey Starter	Amprolium	.0125	.0105
Blue Seal Turkey & Game Bird Starter	Amprolium	.0125	.0115
Blue Seal Turkey & Game Bird Starter	Amprolium	.0125	.0128
Blue Seal Turkey & Game Bird Starter	Amprolium	.0125	.0111
Blue Seal Turkey & Game Bird Starter	Amprolium	.0125	.0106
Blue Seal Turkey & Game Bird Starter	Amprolium	.0125	.0108
Blue Seal Chick Starter AM	Amprolium	.0125	.0113
Blue Seal Chick Starter AM	Amprolium	.0125	.0101
Blue Seal Chick Starter AM	Amprolium	.0125	.0110

Brands Containing Drugs (Cont'd)

Manufacturer & Brand	Drug	Guaranteed % or g/T	Found % or g/T
H. K. WEBSTER CO. (Cont'd)			
Blue Seal Chick Starter AM	Amprolium	.0125%	.0117%
Blue Seal Chick Starter AM	Amprolium	.0125	.0125
Blue Seal Chick Starter AM	Amprolium	.0125	.0105
Blue Seal Turkey Grower	Nitarsone	.01875	.0198
Blue Seal Turkey Grower	Nitarsone	.01875	.0191
Blue Seal Piglets	Oxytetracycline	50 g/T	35 g/T
Blue Seal Piglets	Oxytetracycline	50 g/T	49 g/T
Blue Seal Piglets	Oxytetracycline	50 g/T	41 g/T
Blue Seal Piglets	Oxytetracycline	50 g/T	45 g/T
Blue Seal Piglets	Oxytetracycline	50 g/T	50 g/T
Blue Seal Piglets	Oxytetracycline	50 g/T	50 g/T
Blue Seal Milky Way	Oxytetracycline	50 g/T	45 g/T

* Within Tolerance
** Deficient
*** Excessive
**** Combined Activity

SEED LABORATORY REPORT NO. 58 FOR 1985

TABLE OF CONTENTS

	Page
Introduction	13
Table I, Breakdown of the Samples of the Year	13
Seed Laboratory Staff	14
State Seed Inspectors	14
Federal Seed Law Violations	14
General Requirements of the State Seed Law	15
Classification of Violations in Official Samples	16
Table II, Samples of Agricultural Seed Reported as Mislabeled	17
Table III, Samples of Grass Mixtures Reported as Mislabeled	17
Table IV, Samples of Vegetable & Herb Seeds Reported as Mislabeled	19
Table V, Samples of Flowers Reported as Mislabeled...	21
Table VI, Compliance of Seed Dealers to Seed Law	21
Table VII, Analysis of Seed Law Violations	24
SUMMARY	
Appendix I Schedule of Fees for Seed Testing	25
Appendix II Laboratory Regulations	26

SEED LABORATORY REPORT NO. 58 FOR 1985

By the Seed Laboratory Staff of the Feed, Seed, Fertilizer Laboratory;
West Experiment Station, Amherst, Ma. 01003.

UNIVERSITY OF MASSACHUSETTS

COLLEGE OF FOOD AND NATURAL RESOURCES
MASSACHUSETTS AGRICULTURAL EXPERIMENT STATION
E. Bruce MacDougall, Director

INTRODUCTION

This is the annual summary report relating to the Massachusetts Seed Law as to the inspection and testing of agricultural, turf, lawn, vegetable and flower seeds. This report the work assigned to the Agricultural Experiment Station by the Authority of the Seed Act. It was enacted to regulate the selling of seeds which is primarily a labeling law. The enforcement and regulations of this law are administered by the Seed Control Officer; Department of Food & Agriculture, 100 Cambridge St., Boston, Ma.02202.

TABLE I Breakdown of the Samples for the Year

Kind of Samples	No. Rec'd	Number of Analysis Scheduled		
		Germination	Purity	Noxious Weed
OFFICIAL SAMPLES				
Agricultural Crops	74	54	54	26
Grass Mixture	82	132	57	30
Vegetable & Herbs	527	527	--	--
Flowers	164	164	--	--
Sprout Samples	3	6	3	3
TOTAL OFFICIAL	850	883	114	59
SERVICE SAMPLES				
Agricultural Crops	14	14	12	8
Grass Mixtures	4	9	4	4
Vegetables	69	69	--	--
Flowers	2	2	--	--
Research	9	9	--	--
Tobacco Cleaning	6	6	--	--
TOTAL SERVICE	104	109	16	12
TOTAL ALL SERVICES	954	992	130	71

SEED LABORATORY STAFF

Carl H. Eiben, Associate Professor, Chief Seed Analyst
Janice M. Murphy, Senior Clerk and Stenographer
Benjamin Chickering, Departmental Assistant

The Seed Laboratory is maintained to test official and service samples, provide technical information, and determine if seed lots are labeled correctly. It provides services for seedsmen, home gardeners, farmers, dealers and other state agencies. Seed inspectors submitted 850 official samples and additional 109 were tested as service samples. This laboratory is a member of the Association of Official Seed Analysts which establishes the rules for testing used in the United States and Canada. During the year this laboratory participated in 4 cooperative research projects.

STATE SEED INSPECTORS

James M. Cassidy, Control Officer
George M. Porter
Daniel J. Burns
Charles A. Batts
Earl H. Goodrich

The seed inspectors operate from the Department of Food and Agriculture in Boston. They buy seed samples from retail and wholesale outlets throughout the state and these become the official samples. They also issued Stop Sale Orders on 45 lots of seed for lack of current germination date. All carry-over seed must be retested for germination every nine months. The seed inspectors attented a planning meeting at the Seed Laboratory before the annual inspection period began in February.

FEDERAL SEED LAW VIOLATIONS

Since most seed sold in the state is produced in other states, it becomes part of interstate commerce regulated by the Federal Seed Act. If our tests indicate a serious violation, the seed control officer forwards the information to the Federal Laboratory. The state seed inspectors pick up samples for the Federal Field Trials. The following seed company was cited and fined:

Dekalb-Pfizer Genetics, Dekalb, Il	A shipment of hybrid corn seed which failed as to the variety name and false and misleading advertising.

GENERAL REQUIREMENT OF THE STATE SEED LAW

Seeds which are to be sold in Massachusetts must meet all the requirements of the Seed Act. The latest publication, "Massachusetts Seed Law with Rules and Regulations Amended January 1984" may be obtained from the seed control officer.

The main provision of the law are listed below:

A. All Seeds
   1. Must be labeled to show the kind and usually the variety.
   2. The name and complete address of the labeler or seller.
   3. Treatment statement, if any, according to Federal Rules.
   4. Lot number or other identification.
   5. Must indicate the germination test is current (within 9 months prior to sale).

B. Agricultural and Mixtures.
   1. Commonly accepted name of all kinds and variety with exceptions under section 12 of the Rules and Regulations.
   2. The name and number per pound of any Restricted Noxious Weeds present.
   3. Percentage of hard seed, if any, of each pure seed component.
   4. The calendar month and year of germination of each component.
   5. Show the percentage by weight of each pure seed component in order of predominance in a mixture in excess of 5 percent of the whole.
   6. Show the percentage by weight of other crop seed, and also if Undesirable Crop Seeds are present according to Section 10 of Rules and Regulations.
   7. Show the percentage by weight of weed seed, but not more than 1 percent.
   8. Show the percentage by weight inert matter, but not more than 15 percent.

C. Vegetable and Herb Seeds.
   1. If seeds are in containers of more than one pound for peas, beans, and sweet corn or more than one quarter pound for other seeds, the label must show percentage germination, percentage hard seed, if any, and date of test.
   2. If seeds are packaged in smaller containers than above, the label must show the year for which packaged.
   3. Standards for each kind are listed in the Rules and Regulations.

D. Flower Seeds
   1. The seeds must be marked as to annual, biennial, or perennial.
   2. If seed are packaged in containers larger than those for home gardens, the label must show percentage germination, percentage hard seed, if any, and date of test.
   3. If seed are packaged in containers for home flower gardens, the label must show the year for which packaged.
   4. Standards for most kinds are listed in the Rules and Regulations.

E. Seeds in Preplanted Containers, Mats or Tapes.
   1. The label must show the minimum number of seeds per square foot for agricultural seeds, and for other seed, the minimum number in the container.

F. Seeds for Sprouting
   1. Commonly accepted name of kind or kinds if a mixture.
   2. Percentage by weight of each pure seed component in excess of 5% of the whole and other crop seeds, inert matter, weed seeds, if occuring.
   3. Percentage of germination of each pure seed component.
   4. The calendar month and year the test was completed.

CLASSIFICATION OF VIOLATIONS IN OFFICIAL SAMPLES

The official seed samples represent a cross section from as many lots and sources as possible which present an unbiased survey of seed being offered for sale in Massachusetts. Most of the samples were found to be labeled correctly, but 5% were found to be mislabeled. Any findings which are different from the labeled information or in variance with the Seed Law were reported to the wholesaler, retailer and Seed Control Official.

The details of the specific points of violation are given in four tables which follow this section under four general kinds of seeds tested-- Agricultural, Mixtures, Vegetables, Flowers. In these tables, notations are made as to whether the violations are serious, minor, or technical. This classification is based on the following:

SERIOUS(S) is assigned when laboratory findings are:

1. below the label by more than twice the official tolerance (Rules of AOSA) for the percent by weight of any pure seed component or its germination, or more than label for weeds or Restricted Noxious Weed,
2. grossly mislabeled as to content or use,
3. under 95% claim for seed count or seed weight,
4. less than two-thirds germination standard (unfit for seeding),
5. over one percent weeds,
6. Prohibited Noxious Weed present,
7. treated when not labeled as treated or vice versa,

MINOR(M) is assigned when laboratory findings are:

1. below the label by more than official tolerance for percentage by weight of any pure seed component or its germination,
2. more than the label for pure seed component, weed seed or Restricted Noxious Weed,
3. more than double the official tolerance for inert matter and crop seeds,
4. mislabeled as to use or description,
5. below stated or standard of germination,
6. date of germination is older than 9 months.

TECHNICAL (T) is assigned when laboratory findings show the quality of seed is within tolerance of the label, but not as to:

1. name or kind improperly used, or missing
2. germination percentage missing,
3. date of test or year packaged missing or illegible,
4. arithmetic mistake in purity total,
5. not stated as pelleted.

TABLE II SAMPLES OF AGRICULTURAL SEED REPORTED AS MISLABELED

LABELER/SHIPPER Seller/Consignee	Kind, Variety Lot No. Lab. No.	VIOLATIONS Labeled L Found F	SERIOUS S MINOR M TECHNICAL T
SEABOARD SEED, BRISTOL, IL Condon Hardware, Medway, MA	Kentucky bluegrass, 008-543-30 #85-2064	Inert Matter more than 15% Germination % below stated L 80, F 69	EXCESSIVE S DEFICIENT M
TURF SEED INC., HUBBARD, OR John D. Lyon, Inc., Cambridge, MA	Vetch M65-3-V1 #85-2098	Kind name is missing	REQUIRED T

TABLE III SAMPLE OF GRASS MIXTURES REPORTED AS MISLABELED

LABELER/SHIPPER Seller/consignee	Kind, Variety Lot No. Lab. No.	VIOLATIONS Labeled L Found F	SERIOUS S MINOR M TECHNICAL T
AGWAY, INC., SYRACUSE, NY Agway Inc., Wyndhaven, MA	(1) Quik Green PB4934 #85-1005	Label illegible Type on label too small	T T
	(2) Spot Green PB4783 #85-1002	Type on label too small	T
CONLON & DONNELLY ATTLEBORO, MA Conlon & Donnelly, Attleboro, MA	URI #2 20793-00341 #85-307	Chewings fescue germination % below stated; L85, F 72	DEFICIENT M
CRAWFORD GARDEN SUPPLY, PROVIDENCE, RI Benny's, Fairhaven, MA	(1) Perma Blend 1527 #85-202	Type on label too small	T
	(2) URI #2 1508 #85-204	Type on label too small	T

TABLE III SAMPLES OF GRASS MIXTURES REPORTED AS MISLABELED (Cont'd)

LABELER/SHIPPER Seller/Consignee	Kind, Variety, Lot. No., Lab. No.	VIOLATIONS Labeled L Found F	SERIOUS S MINOR M TECHNICAL T
GARFIELD-WILLIAMSON, JERSEY CITY, NJ Briggs Nursery, N. Attleboro, MA	Contractors CON-185 #85-254	Mislabeled as to purity % Kentucky bluegrass L 7.30, F 19.83 Ryegrasses L 88.60, F 55.98 Red fescue not listed F 22.87 GROSSLY MISREPRESENTED	S
LOFTS INC., BOUND BROOK, NJ Lofts Inc., Arlington, MA	(1) Rhode Island No. 2, RI #2, M-1-85 #85-290	Germination % below standard Chewings fescue L 85,F 64 Kentucky bluegrass L 80,F69 DEFICIENT	M
		Components should be listed in order of predominance	T
		Label should be right side up	T
	(2) Marvel Green LMG1-85 #85-2585	Components should be listed in order of predominance	T
NORTHRUP-KING, MINNEAPOLIS, MN Fairbanks Hdwe, Bridgewter, MA	(1) Services Fast Growing 48878-5363 #85-240	Components should be listed in order of predominance	T
	(2) Green Thumb Fix Up 48866-5330 ABCD #85-241	Components should be listed in order of predominance	T
NORTHRUP-KING, MINNEAPOLIS, MN Grundy Lumber Supply, Westport, MA	(1) Casual 48856-5260 ABCD #85-397	Components should be listed in order of predominance	T
	(2) Sturdy 48858-5-AO-ABCD #85-398	Components should be listed in order of predominance	T
O.M. SCOTT & SONS, MARYSVILLE, OH N.H.D. Hardware, Stoughton, MA	Bare Spots 1469 #85-2058	Total purity % less than 100 INACCURATE	T
TURF RESEARCH INC. GRANT PARK, IL K-Mart, Fairhaven, MA	Spot Seeder B5223 #85-279	Components should be listed in order of predominance	T

TABLE IV SAMPLES OF VEGETABLE & HERB SEEDS REPORTED AS MISLABELED

LABELER/SHIPPER Seller/Consignee	Kind, Variety, Lot No., Lab. No.	VIOLATIONS Labeled L Found F	SERIOUS S MINOR M TECHNICAL T
FREDONIA SEED CO., FREDONIA, NY Sixteen Acres Garden Center, Springfield, MA	Rutabaga, American Purple Top B #85-3058	Germination % Standard 75, F 57	DEFICIENT M
CHARLES C. HART SEED CO., WETHERSFIELD, CT Entwhistle Hdwe, New Bedford, MA	Parsley, Hamburg or Turnip-rooted 1 #85-18	Germination % Standard 60, F 36	UNFIT FOR SEEDING S
GEORGE W. PARK SEED CO., GREENWOOD, SC James M. Cassidy, Boston, MA	(1) Beans, Bush Wax Gold Crop, #5028 #85-2502	Year packaged for is	REQUIRED T
	(2) Beans, Mountaineer White, 5016, #85-2503	Year packaged for is	REQUIRED T
	(3) Beans, Kentucky Wonder, 5026 #85-2504	Year packaged for is	REQUIRED T
	(4) Squash, Blue Hubbard 5301 #85-2505	Year packaged for is	REQUIRED T
	(5) Beet, Ruby Queen 5052 #85-2506	Year packaged for is	REQUIRED T
	(6) Garden Pea, Sugarborn, 5639 #85-2507	Year packaged for is	REQUIRED T
	(7) Lettuce, Butterhead Green Lake 5606 #85-2508	Year packaged for is	REQUIRED T
	(8) Tomato, Beefsteak Scarlet 5404 #85-2509	Year packaged for is	REQUIRED T

TABLE IV SAMPLES OF VEGETABLE & HERB SEEDS REPORTED AS MISLABELED (Cont'd)

LABELER/SHIPPER Seller/Consignee	Kind, Variety, Lot No., Lab. No.	VIOLATIONS Labeled L Found F	SERIOUS S MINOR M TECHNICAL T
GEORGE W. PARK SEED CO., GREENWOOD, SC James M. Cassidy, Boston, MA	(9) Lettuce, Black Seeded Simpson 5146 #85-2510	Year packaged for is	REQUIRED T
	(10) Tomato, Rutgers California Supreme 5445 #85-2511	Year packaged for is	REQUIRED T
	(11)Cucumber, Marketmore 70 5117 #85-2512	Year packaged for is	REQUIRED T
	(12) Lettuce, Loose Leaf Red Salad Bowl 5168 #85-2513	Year packaged for is	REQUIRED T
	(13) Celery, Giant Pascal 5086 #85-2514	Year packaged for is	REQUIRED T
	(14) Cabbage, Preko 5558 #85-2515	Year packaged for is	REQUIRED T
	(15) Carrot, Nandor 5569 #85-2516	Year packaged for is	REQUIRED T
STOKES SEED, BUFFALO, NY James M. Cassidy, Boston, MA	Lettuce, Frosty M1 179 #85-2530	Germination date older than 9 months	EXPIRED DATE M
THOMPSON & MORGAN, FARMINGDALE, NJ Lexington Gardens, Lexington, MA	Lettuce, Crisp Mint 440 #85-2032	Germination % Standard 80, F 59	DEFICIENT M

TABLE V SAMPLES OF FLOWERS REPORTED AS MISLABELED

LABELER/SHIPPER Seller/Consignee	Kind, Variety, Lot No., Lab. No.	VIOLATIONS Labeled L Found F	SERIOUS S MINOR M TECHNICAL T
FERRY-MORSE, FULTON, KY W.H.D. Hdwe, Stoughton, MA	Poppy, Iceland F #85-56	Germination % Standard 60, F 48	DEFICIENT M
J.B. RICE, JR., SHUSHAN, NY Tippy's Garden Center, Stoughton,MA	Aster, Powderpuffs ---- #85-2143	Germination % Standard 65, F 16 UNFIT FOR SEEDING S Lot number missing	REQUIRED T

TABLE VI COMPLIANCE OF SEED DEALERS TO SEED LAW

LABELER/SHIPPER	KIND	TESTED	COMPLIED	NOT COMPLIED	VIOLATIONS S	M	T
Advance Seed Co., Fulton, KY	Veg.	16	16	0			
A.D.R. Bulbs Wyckoff, NJ	Veg.	11	11	0			
Agway Inc. Syracuse, NY	Agri.	7	7	0			
	Mix.	6	4	2	--	--	3
	Veg.	38	38	0			
	Fl.	4	4	0			
Applewood Seed, Arvado, CO	Sprout	3	3	0			
Bentley Seed, Cambridge, NY	Veg.	36	36	0			
	Fl.	16	16	0			
Blue Mountain, Imbeler, OR	Agri.	1	1	0			
The Bishop Co., Lebanon, PA	Mix.	1	1	0			
Burpee Seeds, Warminster, PA	Veg.	38	38	0			
	Fl.	9	9	0			

TABLE VI COMPLIANCE OF SEED DEALERS TO SEED LAW (Cont'd)

LABELER/SHIPPER	KIND	TESTED	COMPLIED	NOT COMPLIED	VIOLATIONS S	M	T
Comstock Ferre, Wethersfield, CT	Veg.	46	46	0			
	Fl.	6	6	0			
Conlon & Donnelly, Attleboro, MA	Mix.	2	1	1	-	1	-
Crawford Garden Supply, Providence, RI	Mix.	3	1	2	-	-	2
Crosman Seed, E. Rochester, NY	Veg.	47	47	0			
	Fl.	11	11	0			
Druid Hill Park, Baltimore, OR	Mix.	1	1	0			
Excel Seed, Downers Grove, IL	Veg.	22	22	0			
Ferry-Morse, Fulton, KY	Veg.	20	20	0			
Flower of the Month, Grand Rapids, MI	Veg.	1	1	0			
Fredonia Seed, Fredonia, NY	Veg.	32	31	1	-	1	-
	Fl.	9	9	0			
Garfield-Williamson, Jersey City, NJ	Mix.	3	2	1	3	-	-
Harris Seed, Rochester, NY	Veg.	18	18	0			
Charles C. Hart, Wethersfield,CT	Agri.	2	2	0			
	Mix.	2	2	0			
	Veg.	60	59	1	1	-	-
	Fl.	24	24	0			
Kaufmann Seed, Ashdown, AR	Agri.	1	1	0			
International Seed, Halsey, OR	Agri.	8	8	0			
Johnny's Seed, Albion, ME	Veg.	16	16	0			

TABLE VI COMPLIANCE OF SEED DEALERS TO SEED LAW (Cont'd)

LABELER/SHIPPER	KIND	TESTED	COMPLIED	NOT COMPLIED	VIOLATIONS S	M	T
Lofts Inc.,	Agri.	19	19	0			
Boundbrook, NJ	Mix.	13	11	2	-	2	3
John D. Lyon,	Agri.	2	2	0			
Cambridge, MA	Mix.	5	5	0			
Northrup-King, Minneapolis, MN	Mix.	5	1	4	-	-	4
Page Seed,	Veg.	51	51	0			
Greene, NY	Fl.	18	18	0			
George W. Park,	Agri.	1	1	0			
Greenwood, SC	Veg.	15	0	15	-	-	15
J. B. Rice, Jr.,	Veg.	23	23	0			
Shushan, NY	Fl.	10	9	1	1	-	1
Jerome B. Rice,	Veg.	10	10	0			
Downers Grove, IL	Fl.	22	22	0			
J. M. Schultz Seed, Dietriech, IL	Agri.	3	3	0			
O.M. Scott & Sons, Marysville, OH	Mix.	7	6	1	-	-	1
Seaboard Seed,	Agri.	1	0	1	1	1	-
Bristol, IL	Mix.	1	1	0			
Sears,Roebuck & Co.,	Agri.	1	1	0			
Chicago, IL	Mix.	5	5	0			
Seedway, Inc., Hall, NY	Veg.	3	3	0			
Stanford Seed,	Agri.	17	17	0			
Buffalo, NY	Mix.	14	14	0			
Stokes Seed, Buffalo, NY	Veg.	17	16	1	-	1	-
Thompson & Morgan,	Veg.	8	7	1	-	1	-
Farmingdale, NJ	Fl.	1	1	0			
Turf Seed, Inc., Hubbard, OR	Agri.	8	7	1	-	-	1

TABLE VI COMPLIANCE OF SEED DEALERS TO SEED LAW (Cont'd)

LABELER/SHIPPER	KIND	TESTED	COMPLIED	NOT COMPLIED	VIOLATIONS S	M	T
Turf Research, Grant Park, IL	Agri.	2	2	0			
	Mix.	7	6	1	-	-	1
Vaughan Seed, Boundbrook, NJ	Agri.	1	1	0			
	Mix.	4	4	0			
Whitney-Dickenson, Buffalo, NY	Mix.	2	2	0			
TOTALS		850	813	37	6	8	32

TABLE VII ANALYSIS OF SEED LAW VIOLETIONS

CLASS OF SAMPLES	NUMBER COLLECTED	NUMBER OF VIOLATIONS	% VIOLATIONS
Agricultural Crop	74	2	2.7
Grass Mixtures	82	14	17.0
Vegetables & Herbs	527	19	3.6
Flowers	164	2	1.2
Sprouts	3	0	0

SUMMARY

The results of the inspection and analysis of the official seed samples for the year ending June 30, 1985, has shown that 37 of the 850 samples collected were at variance with the Massachusetts Seed Law. There were 46 individual violations--6 serious, 8 minor and 32 technical. As in former years the major problems were purity percent out of tolerance and germination percent below stated for crops and mixtures as well as germination percent for vegetables and flowers were below standard. The remaining violations were technical label errors or omissions.

In conclusion, the seed laboratory has again shown the value of the Seed Law with its monitoring and testing of representative samples of seeds sold in the Commonwealth. The laboratory serves as an effective deterrent of the sale of poor quality seed. The continued support of this program is needed.

APPENDIX I

UNIVERSITY OF MASSACHUSETTS SEED LABORATORY
SCHEDULE OF FEES FOR SEED TESTING

	Purity Only	Germination Only	Purity & Germination	Noxious Weed Examination
FIELD CROPS				
alfalfa	$1.50	$ .75	$ 1.75	$ 1.00
alsike	1.50	.75	1.75	1.00
barley	1.00	1.00	1.50	.50
bentgrass	2.00	1.50	3.00	1.00
bluegrass	2.00	1.50	3.00	1.00
bromegrass	1.50	1.00	2.00	1.00
buckwheat	1.00	.75	1.25	.50
clovers	1.50	.75	1.75	1.00
corn	1.50	1.00	1.25	.50
fescues	1.50	1.00	2.00	1.00
oats	1.00	1.00	1.50	.50
orchardgrass	1.50	1.00	2.00	1.00
redtop	2.00	1.00	2.50	1.00
rye	1.00	1.00	1.50	.50
ryegrass	1.50	1.00	2.00	1.00
sorghum	1.00	.75	1.25	.50
soybean	1.00	.75	1.75	.50
sudangrass	1.50	.75	1.75	.50
timothy	1.50	1.00	2.00	1.00
tobacco	1.50	1.00	2.00	1.00
wheat	1.00	1.00	1.50	.50
FIELD OR LAWN MIXTURES				
Two components	3.00	2.00	4.50	1.00
Each additional	1.00	1.00	1.50	----
FLOWERS	1.50	1.00	2.00	.50
TREES & SHRUBS	1.50	1.50	2.50	.50
VEGETABLE & HERBS	1.50	.75	1.75	.50

Cleaning Tobacco Seed: $1.00 per pound or fraction of a pound based on original weight.

Kinds of Seed Not Listed: Fees are based on charges for similar sized seeds.

Extra Dirty Samples and Other Service Requests: Fees are based on time consumed in making tests.

APPENDIX II

LABORATORY REGULATIONS

Any person residing or doing business in the Commonwealth of Massachusetts may submit seeds for purity, germination, and noxious weed examination. During the calendar year, the seed laboratory will allow two free germination tests of vegetable, flower, or tobacco seed.

The minimum of weights of samples to be submitted for purity analysis and noxious weed examination are:

a. Two ounces of alsike, bentgrass, bluegrass, redtop, timothy, and white clover.

b. Five ounces of alfalfa, bromegrass, fescues, orchardgrass, red clover, ryegrass and sudangrass.

c. Eight ounces of all mixtures including grass, lawn, pasture, or sprouting.

d. One pound of barley, buckwheat, corn, oats, rye, sorghum, soybean and wheat.

The minimum number of seeds of any kind submitted for a germination test is 400. This includes the above mentioned seeds and vegetables, herbs, flowers, trees, and shrubs.

Samples should be taken so as to represent correctly the lot sampled and placed in a strong container and addressed to:

Seed Laboratory
West Experiment Station
University of Massachusetts
Amherst, Ma. 01003

Checks or money orders for the fees, minus free tests, must be made payable to the Seed Law #280265-0190. The final laboratory report will be sent upon receipt of payment.

An official germination test is valid for nine months after the month the test is completed. Thus the report of a germination test made in October is good until August 1 of the following year. Sample for tests representing seed to be planted in the spring should be submitted after September 1, but before February 1. After that date and until July, the laboratory must give top priority to a heavy load of official samples.

INSPECTION OF COMMERCIAL FERTILIZERS AND AGRICULTURAL LIME PRODUCTS

Report Number 111 for the Fiscal Year

Ending 1985

By the Fertilizer Laboratory Staff

of the Feed, Seed, and Fertilizer Laboratory

West Experiment Station, Amherst, MA 01003

UNIVERSITY OF MASSACHUSETTS
COLLEGE OF FOOD & NATURAL RESOURCES
AGRICULTURAL EXPERIMENT STATION

Director, E. Bruce MacDougall

FEED & FERTILIZER STAFF:

Edward F. Vlach, Official Chemist in Charge
*Ralph M. Morgan
Paul Korpita, Senior Chemist
David Houle, Assistant Chemist
John Melnick, Technical Assistant
**Janice M. Murphy, Senior Clerk & Stenographer

*Retired
** Resigned

Mixtures Substantially Complying with Guarantees

Manufacturer & Brand	Number Samples Analyzed
AGRI-CHEM OF U.S. STEEL	
USS Vertagreen Turf & Tree 10-6-4	1
Vertagreen 10-10-10	1
AGRITURF, INC.	
Agriturf Fertilizer 5-10-5	2
Agriturf Fertilizer 10-10-10	1
Agriturf Fertilizer 8-24-8	1
Agriturf Fertilizer 15-8-12	1
Agriturf Fertilizer 10-20-20	1
Agriturf Fertilizer 15-15-15	1
Agriturf Fertilizer 5-10-10	1
Agriturf Fertilizer 10-6-4	2
AGWAY, INC.	
Agway Greenlawn Fertilizer 22-6-8	11
Agway Nutri-Bond Ammoniated 15-15-15	40
Agway Blend-Rite 15-8-12	2
Agway Cottonseed Meal 6-2-2	1
Agway Start-N-Gro 16-32-16	1
Agway Nutri-Bond Ammoniated 5-20-20	1
Agway Blend-Rite 19-19-19	1
Agway Professional Fairway & Athletic Turf 20-5-10	2
Agway Blend-Rite 23-12-18	2
Agway Turf Fertilizer 20-5-10	1
Agway Super Garden Plant Food 8-16-16	4
Agway Greenlawn & Dacthal Crabgrass Killer 20-5-7	1
Agway Sol-U-Green 19-19-19	1
Agway Blend-Rite 13-34-10	1
Agway Greenlawn & Insect Killer 21-5-7	2
Agway Green Tee Turf 25-5-10	1
Agway Special Starter 20-20-20	1
Agway Greenlawn Plus Weed Killer 21-5-7	8
Agway Nutri-Bond Corn Starter 10-20-20	1
Agway Nutri-Bond Corn Starter 10-20-10	3
Agway Turfood Fertilizer 10-6-4	2
Agway Blend-Rite 10-10-10	6
Agway Tree & Shrub Plant Food 10-10-10	2
Agway Plant Food 0-10-40	1
Agway Ferti-Flow 0-10-40	1
Agway Blend-Rite Alfalfa 0-10-40	5
Agway Nutri-Bond Ammoniated 15-8-12	5
Agway Blend-Rite 10-20-20	5
Agway Nutri-Bond Ammoniated 10-20-20	4
Agway Nutri-Bond Ammoniated 5-10-10	3
Agway Blend-Rite 5-10-10	6
Agway Nutri-Bond Ammoniated 10-10-10	5
Agway Greenlawn Fall-Winter 16-4-8	3
Agway Blend-Rite 15-15-15	4

Mixtures Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
AGWAY, INC. (Cont'd)	
Agway Evergreen Plant Food 8-4-4	3
Agway Garden Plant Food 5-10-5	6
Agway Turfood Special 10-6-4	8
Agway Turfood Professional 10-6-4	3
ATLAS FISH FERTILIZER CO.	
Atlas Fish Emulsion Plant Food 5-1-1	1
CALDWELL & JONES, INC.	
Surge Lawn & Garden 5-10-5	1
CHANNEL HOME CENTERS/GRACE RETAIL CORP.	
Green-N-Gro Turf Food 27-3-3	2
Green-N-Gone Super Weed & Feed 30-4-4	1
Green-N-Gro Vegetable Food 6-12-6	1
Stop-N-Gro Turf Food & Crabgrass Preventer 20-5-5	1
Green-N-Greener Super Turf Food 32-4-4	1
Green-N-Gone Turf Food & Weed Control 26-3-3	1
CHEVRON CHEMICAL CO.	
Ortho Up-Start Plant Starter 5-15-5	1
Ortho House Plant Food 5-10-5	1
Ortho Fish Emulsion 5-1-1	1
Ortho Vegetable Food 8-10-8	1
Ortho Evergreen Tree & Shrub Food 14-7-7	1
Ortho Azalia, Camelia & Rhododendron Food 10-7-7	1
CROP PRODUCTION SERVICES, INC.	
Agrico Fertilizer 10-10-10	2
Agrico D.A.P. 18-46-0	1
Agrico Fertilizer 5-10-5	2
Agrico Fertilizer 5-10-10	2
Agrico Fertilizer 15-8-12	1
Agrico Fertilizer 15-15-15	1
Agrico Fertilizer 10-20-20	1
Agrico Fertilizer 20-5-25	1
Agrico Village Green 10-6-4	6
DERBY FEED CO., INC.	
Derby's All Purpose Fertilizer 5-10-5	1
THE ESPOMA CO.	
Espoma Garden Tone for Tomatoes & Vegetables 4-6-6	2
Espoma Holly Tone for Acid Loving Plants 4-6-4	1
Espoma Plant Tone All Purpose 4-3-2	1
Espoma Organic Lawn Food 18-8-6	2
ESTECH, INC.	
Gro-Tone Plant Food 5-10-5	1

Mixtures Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
ESTECH, INC. (Cont'd)	
Gro-Tone Rose Food 7-10-5	1
Vigoro Weed Control Plus Lawn Fertilizer 24-4-12	1
Perk-Up Plant Food 5-10-5	5
K-Mart Lawn & Garden Food 5-10-5	1
Perk-Up Lawn Food 10-6-4	2
K-Mart Weed & Feed 10-6-4	1
K-Mart Lawn & Garden Food 10-6-4	1
Gro-Tone Evergreen Food 30% Organic N 6-8-6	2
Super K-Gro Weed & Feed 25-3-3	1
Suburban Brand Fertilizer 10-10-10	2
Vigoro Weed & Feed 18-3-8	1
Suburban Fertilizer 5-10-10	1
K-Mart Lawn Food 20-10-5	1
FAESY & BESTHOFF, INC.	
F & B Evergreen Food 7-7-7	1
GLORION CORP. LAWN & GARDEN DIVISION	
Glorion Deluxe Weed & Feed Lawn Fertilizer 30-3-3	2
Glorion Weed & Feed 19-4-4	1
Glorion 50% Organic 10-6-4	1
W. R. GRACE & CO.	
Peter's African Violet Special 12-36-14	1
Peter's All Purpose Plant Food 20-20-20	1
Peter's Blossom Booster 10-30-20	1
W. R. GRACE & CO., AGRICULTURAL CHEMICAL GROUP	
Wonder-Gro Lawn Fertilizer 20-10-10	1
Wonder-Gro 39 Plus 13-13-13	1
HOWARD JOHNSON ENTERPRIZES, INC.	
Surety Turf Food 26-3-3	1
Surety Vegetable & Flower Garden 5-10-5	1
THE HYPONEX CO., INC.	
Hyponex House Plant Food 7-6-19	1
Hyponex House Plant Food 7-7-20	1
INTERNATIONAL SPIKE, INC.	
Jobes Fertilizer Spikes 8-16-12	1
LEBANON CHEMICAL CORP.	
Green Gold Feed & Weed 25-3-5	6
Greenview Two Way Green Power 30-4-4	3
Greenview Winter Green 10-16-20	1
Lebanon Spray Gro Water Soluble 20-20-20	1
Lebanon Grass Food 10-6-4	1

Mixtures Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
LEBANON CHEMICAL CORP. (Cont'd)	
Greenview Garden-Mate 10-20-10	1
Professional Tree Food 7-7-7	1
Green Gold Lawn Food 26-4-6	3
Lebanon Multi Purpose Fertilizer 10-10-10	1
Lebanon Greenskeeper Granular 50% Organic 20-8-8	1
Lebanon Rose Food 9-8-8	1
Greenview Green Power 30-4-4	4
Green Gold Lawn Food 26-4-6	1
Greenview Treble 16-8-4	1
Green Gold Re-Nu Plus Weed & Feed 8-18-10	1
Lebanon Greenskeeper 50% Organic 10-6-4	1
Green Gold Spring Crabgrass Control & Lawn Food 10-6-4	2
Lebanon Greens-Keeper 10-6-4	1
Lebanon Country Club 50% Organic 12-4-8	1
Greenview Crabicide Green 22-4-4	2
Lebanon Greenskeeper Granular 50% Organic 10-6-4	1
Country Squire Lawn & Garden 10-6-4	1
Green Gold Re-Nu Lawn Food 8-18-10	1
Country Squire Lawn & Garden 5-10-5	1
Lebanon Extra 10-10-10	2
Turf Master Lawn & Garden 5-10-5	1
Greenview Shrub-Mate 12-10-10	1
Lebanon Vegetable Garden Food 5-10-10	2
Lebanon Agrinite 100% Organic 7-2-0	3
LOFTS, INC.	
Lofts Weed & Feed 20-3-3	4
Lofts Fall Feed & Seed Starter 13-11-15	2
Lofts Lawn Food Plus Crabgrass Preventer 25-3-3	1
Lofts Lawn Food 28-3-8	2
Lofts Professional Lawn Food 25-5-10	1
Lofts All Purpose Plant Food 5-10-5	1
Lofts Starter Fertilizer 18-24-6	1
MASSACHUSETTS NURSERYMEN'S ASSN.	
MNA Crab-Kleen 19-4-4	1
MNA Country Gardener 5-10-5	1
MNA Plant -O- Ganic 8-8-8	2
MNA Crab-Kleen 11-22-10	1
MNA Turf-Kleen 25-3-5	1
MNA Professional Lawn Food 26-4-6	1
MNA Turf -O- Ganic 10-6-4	4
MITCH'S NURSERY & GARDEN CENTER	
Mitch's Professional Lawn Fertilizer 25-7-11	1
NASSAU GARDEN, INC.	
Imperial Weed & Feed 10-6-4	1

Mixtures Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
NASSAU GARDEN, INC. (Cont'd)	
Imperial Lawn Food 20-3-3	1
THE NATURAL DEVELOPMENT CO.	
Super Fertrell 3-2-3	1
NUTRICO, INC.	
Nutrico Tomatoe & Vegetable Food 5-10-10	1
OLD FOX CHEMICAL CO.	
Old Fox Fertilizer 15-0-33	1
Old Fox Shrub & Tree Food 6-10-6	1
Old Fox Fertilizer 10-20-10	1
Old Fox Fertilizer 15-8-12	1
Old Fox Fertilizer 10-10-10	2
PARKER FERTILIZER CO.	
Semi Star Premium Lawn Food 26-6-6	1
Semi Star Seed Starter & Winter Turf Food 18-24-6	1
PETER'S FERTILIZER PRODUCTS	
Peter's House Plant Special 15-30-15	1
PLANT RESEARCH LAB	
Roger's Gardens African Violet Food 1-3-2	1
RAPID GRO CORPORATION	
Rapid Gro Plant Food 23-19-17	1
RINGER CORPORATION	
Restore for African Violets 3-5-4	1
SHULTZ CO.	
Shultz-Instant Fertilizer 20-30-20	1
O. M. SCOTT & SONS	
Scotts Starter Fertilizer 4% Win 17-23-6	3
Scotts Step 1 Crabgrass Preventer Plus 10% Win 32-3-4	3
Scotts Step 2 Weed Control Plus 10.6%Win 32-3-4	2
Scotts Step 3 Insect Control & Fertilizer 9.4% Win 28-6-4	3
Scotts Step 4 Lawn Fertilizer 31-3-10	4
Burpee Grow Vegetables 17-23-6	1
Scotts Summer Insect Control & Fertilizer 24-3-3	1
Scotts Turf Builder Plus Halts 27-3-3	1
Scotts Super Plus 2 31-4-4	3
Scotts Turf Builder 28-3-3	2
Scotts Starter Fertilizer & Crabgrass Preventer 16-21-3	1
Scotts Super Turf Builder 36-4-4	3
Scotts Turf Builder 27-3-3	4

Mixture Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
O. M. SCOTT & SONS (Cont'd)	
Scotts Lawn Insect Control & Fertilizer 28-6-4	1
Scotts Starter Fertilizer & Crabgrass Preventer 16-21-5	1
Scotts Plus 2 Turf Builder 26-3-3	1
Scotts Winterizer Lawn Fertilizer 19-3-12	1
Scotts Lawn Disease Preventer & Fertilizer 18-6-6	1
Scotts Plus 2 Turf Builder 27-3-3	2
Scotts Halt for Established Lawns 25-3-3	2
Scotts Plus 2 Turf Builder 26-3-3	2
STANFORD SEED CO.	
Stanford's Old English Fall-Tilizer 8-20-10	1
Stanford's Old English Weed & Feed 18-3-5	2
Stanford's Old English Soil Insecticide & Diazonon & Fert. 18-3-5	1
Old English Pre-Emergence Crabgrass Killer & Balan & Fert. 18-3-5	1
STERN'S NURSERIES, INC.	
Miracle Gro-Water Soluble-Plant Food 15-30-15	1
Stern's Miracid Soil Acidifier & Plant Food 30-10-10	1
UNIVERSAL CHEMICAL CO., INC.	
Electra Plant Food Highly Organic 5-10-3	2
WEAVER'S LAWN & GARDEN PRODUCT, INC.	
Heritage House Premium Lawn Food & Nitroform 21-6-11	2
Heritage House Systemic Weed & Feed 18-4-7	1

Mixtures Showing Deficiencies Exceeding Tolerances

Manufacturer & Brand	Nitrogen Found Water Insoluble	Nitrogen Found Total	Available Phosphoric Acid	Water Soluble Potash
AGRITURF, INC.				
Agriturf Fertilizer 10-10-10		5.1 **	10.2	10.2
Agriturf Fertilizer 0-20-20			16.89 **	21.0
Agriturf Fertilizer 15-15-15		14.2 **	15.9	14.8
Agriturf Fertilizer 5-10-10		4.9	8.92 **	9.3 *
Agriturf Fertilizer 5-10-10		5.3	10.9	7.0 **
Agriturf Fertilizer 10-10-10		8.2 **	8.79 **	10.6
Agriturf Fertilizer 30-3-15		25.9 **	2.37 **	19.4 ***
Agriturf Fertilizer 12-4-8		13.6	4.8	7.2 **
Agriturf Fertilizer 5-10-10		5.4	9.66 *	9.1 **
Agriturf Fertilizer 28-10-15		27.5	10.2	12.6 **
Agriturf Fertilizer 10-20-10		10.4	18.7 **	9.5 *
Agriturf Fertilizer 10-10-10		8.9	9.9	9.5 *
AGWAY, INC.				
Agway Greenlawn & Dacthal 20-5-7.	4.4 *	20.9	6.8	6.4 **
Agway Greenlawn Plus 22-6-8		21.8	7.0	7.0 **
Agway Blend-Rite 15-8-12		12.4	9.0	12.3
Agway Blend-Rite 5-10-10		4.6 *	9.7	8.2 **
Agway Nutri-Bond 10-20-20		10.1	21.1	18.5 **
Agway Turfood 10-6-4		9.4 **	5.9	3.7 *
Agway Special Mixture 8-16-16 ...		7.3 **	15.12 **	18.3
Agway Blend-Rite 23-12-18		21.7 **	13.1	20.6
Agway Nutri-Bond Ammoniated 10-15-15		9.5 *	19.16 ***	11.4 **
Agway Super Garden Plant Food 8-16-16		8.8	14.63 **	13.2 **
Agway Special Mixture 5-15-15 ...		4.6 *	13.99 **	16.3
Agway Blend-Rite 15-8-12		12.8 **	8.2	13.9
Agway Garden Plant Food 5-10-5 ..		4.5 *	8.27 **	5.0
Agway Nutri-Bond Ammoniated 15-15-15		15.5	14.6	13.5 **
Agway Greenlawn Plus & Weed Killer 21-5-7	7.8	21.9	7.3	6.0 **
Agway Blend-Rite 15-15-15		15.0	12.79 **	16.0
Agway Garden Plant Food 5-10-5 ..		4.7	9.06 **	5.3
Agway Evergreen Plant Food 8-4-4.		8.3	5.1	2.0 **
Agway Blend-Rite 5-10-10		4.5 *	9.16 **	8.0 **
Agway Blend-Rite 10-10-10		7.0 **	9.6 *	11.6
Agway Blend-Rite 15-15-15		12.9 **	15.1	14.9
Agway Blend-Rite 15-8-12		13.1 **	8.6	13.6
Agway Blend-Rite 19-19-19		19.3	22.2 ***	16.6 **
Agway Professional Hi-Density 32-5-7		30.2 **	6.7	9.8
Agway Blend-Rite 15-15-15		13.5 **	14.8	15.6
Agway Blend-Rite 15-8-12		12.5 **	8.6	12.3
Agway Greenlawn Plus Weed Killer 21-5-7		21.6	6.6	6.1 **
Agway Blend-Rite 10-10-10		9.0 **	9.07 **	9.0 **
Agway Greenlawn Plus Weed Killer 21-5-7		22.1	5.6	10.7 ***
Agway Blend-Rite 15-8-12		19.8 ***	10.3	12.0
Agway Alfa B 0-10-40			11.0	37.1 **

Mixtures Showing Deficiencies Exceeding Tolerances (Cont'd)

Manufacturer & Brand	Nitrogen Found Water Insoluble	Nitrogen Found Total	Available Phosphoric Acid	Water Soluble Potash
W. ATLEE BURPEE CO.				
Burpee Grow for Tomatoes 15-20-15	4.0	16.0	22.0	13.7
CHANNEL HOME CENTERS/GRACE RETAIL CORP.				
Green-N-Gone Turf Food & Weed Control 26-3-3		28.6	3.2	2.2 **
Green-N-Stop Turf Food & Crabgrass Preventer 20-5-5 ...		24.2 ***	7.0	5.2
CROP PRODUCTION SERVICES, INC.				
Agrico Fertilizer 10-20-10		8.8 **	17.26 **	12.5
Agrico Fertilizer 10-10-10		8.3 **	9.7	10.6
Agrico Fertilizer 5-10-10		4.3 **	9.30 **	9.2 **
Agrico Fertilizer 10-10-10		8.7 **	9.4 *	10.7
Agrico Fertilizer 10-10-10		9.5 *	10.1	9.1 *
Agrico Fertilizer 10-15-15		11.1	8.31 **	19.6 ***
Agrico Fertilizer 8-16-16		8.6	16.6	14.5 **
Agrico Fertilizer 23-8-23		25.0	9.3	21.6 **
Agrico Fertilizer 5-10-10		5.7	10.5	9.1 **
Agrico Village Green 10-6-4		7.7 **	4.57 **	5.5
Agrico Fertilizer 6-24-12		5.7	22.14 **	12.5
Agrico Village Green 10-6-4		8.5 **	5.8	3.6 *
ESTECH CORP.				
K-Mart Lawn & Garden Food 10-6-4		9.4 **	5.8	2.8 **
Super K-Gro Lawn Fertilizer 27-3-3		29.2	3.5	2.1 **
Gro-Tone 5-10-5		9.2 ***	11.1	6.9
Vigoro Azalea, Camelia & Rhododendron Food 4-10-10		6.4	9.6 *	9.1 **
Vigoro Tomatoe Food 5-8-10		7.5	12.7 ***	8.2 **
Vigoro All Purpose Fertilizer 6-10-4		6.4	8.96 **	5.5
Vigoro Lawn Fertilizer 24-4-12 .	2.0	23.6	2.97 **	12.9
Vigoro Deep Green Lawn Food 20-3-6		14.9 **	3.5	6.5
Vigoro Lawn Fertilizer 24-4-12 .	1.7	23.1 **	4.5	14.7
Gro-Tone Plant Food 5-10-5	1.7	5.2	9.3 **	5.8
Suburban Fertilizer 5-10-10		4.0 **	7.18 **	3.9 **
Suburban Fertilizer 10-10-10 ...		4.3 **	8.33 **	9.0 **
Gro-Tone Evergreen Food 6-8-6 ..		6.0	7.25 **	6.7
Suburban Fertilizer 5-10-10		5.3	7.43 **	8.2 **
Deerfield Plant Food 5-10-5		4.7	8.98 **	5.1
Suburban Brand Fertilizer 5-10-10		5.3	8.31 **	8.7 **
Deerfield Plant Food 5-10-5		5.1	9.6 *	3.1 **
Gro-Tone Plant Food 5-10-5		6.2	8.13 **	7.0
Deerfield Lawn Food 10-6-4		8.4 **	5.8	3.7
Perk-Up 5-10-5		6.0	8.74 **	7.9
Deerfield Plant Food 5-10-5		5.6	8.91 **	4.2 **
FAESY & BESTHOFF, INC.				
F & B Rose Food 8-10-4		8.9	19.28 ***	4.8

Mixtures Showing Deficiencies Exceeding Tolerances (Cont'd)

Manufacturer & Brand	Nitrogen Found Water Insoluble	Nitrogen Found Total	Available Phosphoric Acid	Water Soluble Potash
FAESY & BESTHOFF, INC. (Cont'd)				
F & B Natural Organic Garden Food 5-5-5		5.5	8.6 ***	6.8
F & BA Garden Food 5-10-5		5.3	6.98 **	4.6 *
FARM BUREAU CO.				
Fabu-Gro Plant Food 15-15-15 ...		13.8 **	14.04 **	19.3 ***
GLORION CORP., LAWN & GARDEN DIV.				
Glorion Deluxe Grass Food 29-3-5	5.0	30.4	3.6	4.2 **
Glorion Deluxe Grass Food 29-3-5	5.4	31.1	3.7	3.9 **
LEBANON CHEMICAL CORP.				
Lebanon Grass Food 10-6-4		9.2 **	6.0	3.8
Greenview Green Power 3-4-4		28.7 **	5.1	5.2
Country Squire Lawn & Garden 5-10-5		5.5	9.09 **	6.4
Greenview Spring Tonic 20-4-4 ..		19.1 **	5.4	4.4
Lebanon Multi-Purpose 10-10-10 .		9.2 **	10.8	10.9
Greenskeeper Fertilizer 20-8-8 .		20.0	7.0 **	8.4
Lebanon Professional Tree Food 7-7-7		5.7 **	6.9	5.5 **
Greenview Green Power 30-4-4 ...		28.8 **	4.8	4.8
Lebanon Fertilizer 10-20-20		11.5	14.27 **	13.1 **
Lebanon Pelletized Grass Food 10-6-4		9.4 **	6.4	3.8
Lebanon Re-Nu Lawn Food 8-18-10		11.9 ***	17.1 **	10.9
Greenview Shrub-Mate 12-10-10 ..		12.9	6.76 **	11.0
Greenview Tomatoe-Mate 9-19-9 ..		9.4	17.2 **	11.1
Greenskeeper Granular 20-4-10 ..	5.5	20.5	4.4	9.1 **
Lebanon Re-Nu Lawn Food 8-18-10		12.1 ***	17.1 **	9.9
LOFTS, INC.				
Lofts Lawn Fertilizer 10-6-4 ...		8.9 **	5.8	4.5
Professional Lawn Food 25-5-10 .		23.5 **	5.3	12.1
Lofts Lawn Food 28-3-8		27.1 **	3.7	9.4
Lofts Lawn Fertilizer 10-6-4 ...		11.7	6.3	3.3 **
Lofts Fall Feed & Seed Starter 13-11-15		12.2 **	10.8	17.0
Lofts Lawn Food 28-3-8		25.0 **	3.0	8.0
MASSACHUSETTS NURSERRYMEN'S ASSN.				
MNA Turf - O - Ganic 10-6-4		12.5	11.1 ***	5.0
MNA Country Gardener 5-10-5		5.5	8.09 **	7.6
MNA Plant - O - Ganic 8-8-8	2.3 **	8.0	9.1	8.9
MNA Country Gardener 5-10-5		5.1	15.0 ***	4.2 **
MNA Plant - O - Ganic 8-8-8	4.4	9.0	6.9 **	8.5
MNA Country Gardener 5-10-5		4.8	11.2	4.1 **
MNA Turf - O - Ganic & Crabgrass Control 10-6-4		9.5 *	10.9 ***	3.1 **
MNA Country Gardener 5-10-5		9.2 ***	16.4 ***	8.4 ***
MNA Plant - O - Ganic 8-8-8		6.3 **	7.01 **	4.8 **

Mixtures Showing Deficiencies Exceeding Tolerances (Cont'd)

Manufacturer & Brand	Nitrogen Found Water Insoluble	Nitrogen Found Total	Available Phosphoric Acid	Water Soluble Potash
MASSACHUSETTS NURSERYMEN'S ASSN. (Cont'd)				
MNA Country Gardener 5-10-5 ...		7.0	14.79 ***	13.7 ***
MNA Turf - O - Ganic 10-6-4 ...		8.7 **	6.1	4.9
MNA Plant - O - Ganic 8-8-8 ...		6.7 **	12.92 ***	7.8
OLD FOX CHEMICAL CO., INC.				
Old Fox Super Turf Food 15-9-6.		12.0 **	8.02 **	10.1 ***
Old Fox Estate Green 10-6-4 ...		9.8	9.16 ***	10.3 ***
Old Fox Garden Food 5-10-5		5.1	9.08 **	4.8
Old Fox Fertilizer 10-10-10 ...		11.3	15.45 ***	11.8
Old Fox Fertilizer 5-10-10		8.1 ***	11.9	11.0
Old Fox Fertilizer 15-15-15 ...		15.8	15.7	13.4 **
Old Fox Fertilizer 5-10-10		8.3 ***	5.74 **	7.1 **
Old Fox Fertilizer 10-20-10 ...		12.5	18.3 **	7.9 **
Old Fox Fertilizer 5-10-10		5.7	8.7 **	9.5 *
Old Fox Fertilizer 10-20-20 ...		8.4 **	13.20 **	21.1
Old Fox Fertilizer 15-10-10 ...		15.1	7.30 **	8.9 **
Old Fox Fertilizer 15-8-12		15.1	10.6	17.2 ***
Old Fox Fertilizer 12-15-15 ...		11.0 **	15.7	14.6 *
Old Fox Fertilizer 7-0-32		7.6		29.8 **
Old Fox Liquid Fertilizer 8-20-6		9.3	20.7	5.5 **
Old Fox Garden Pride Garden Food 5-10-5		6.6	17.86 ***	7.7
Old Fox Garden Food 5-10-5		3.9 **	5.84 **	7.0
Old Fox Tobacco Fertilizer 6-3-6		7.0	3.5	5.1 **
Old Fox Estate Green 10-6-4 ...		9.9	9.26 ***	6.4
PARKER FERTILIZER CO.				
Semi-Star Premium Weed & Feed 25-5-5	5.7 **	24.7	4.04 **	4.8
Semi-Star Premium Lawn Food 26-6-6	4.0 **	26.8	6.7	7.0
O. M. SCOTT & SONS				
Scotts Plus 2 Turf Builder 26-3-3	5.9 ***	26.9	2.8	3.4
Scotts Lawn Pro 28-6-4	12.7 ***	30.5	6.4	5.5
Scotts Lawn Pro 32-3-4	14.0 ***	33.2	3.1	5.0
Burpee Grow Vegetables Fertilizer 18-24-6		18.5	25.1	5.3 **
Scotts Turf Builder Lawn Fertilizer 27-3-3	6.0 ***	27.5	3.1	2.9
Scotts Super Turf Builder Plus 2 32-4-4	14.2 ***	32.7	4.4	4.1
STANFORD SEED CO.				
Stanford's Old English Lawn Food 26-4-8		28.7	3.9	7.1 **
Stanford's Old English Lawn Food 26-4-8		28.4	3.8	6.8 **

Mixtures Showing Deficiencies Exceeding Tolerances (Cont'd)

Manufacturer & Brand	Nitrogen Found Water Insoluble	Nitrogen Found Total	Available Phosphoric Acid	Water Soluble Potash
STANFORD SEED CO. (Cont'd)				
Stanford's Old English Lawn Food 26-4-8		28.4	3.8	6.9 **
WEAVER'S LAWN & GARDEN PRODUCTS, INC.				
Weaver's Turf Food 23-7-7		20.9 **	7.0	7.3
Heritage House Systemic Weed & Feed 18-4-7		17.7 *	4.7	3.8 **
Heritage House Grass Seed Starter 16-18-10		12.0 **	16.2 **	8.1 **
Heritage House Premium Lawn Food & Nitroform 21-6-11	3.0 *	22.7	5.1 **	10.8
Heritage House Super Crabgrass Preventer & Lawn Food 21-4-7.		17.2 **	4.5	6.7 *

* Within Tolerance ** Deficient *** Excessive

Nitrogen, Phosphoric Acid, and Potash Products

Manufacturer & Brand	Total Nitrogen	Available Phosphoric Acid	Water Soluble Potash
AGWAY, INC.			
Agway Urea 46-0-0	46.7		
Agway Urea 46-0-0	46.7		
Agway Urea 46-0-0	46.6		
Agway Urea 46-0-0	45.9		
Agway Blend-Rite Fertilizer 0-45-0		43.81 *	
Agway Blend-Rite Potash 0-0-60 .			59.1 *
Agway Muriate of Potash 0-0-60.5			59.8 *
CROP PRODUCTION SERVICES, INC.			
Agrico Urea 46-0-0	46.2		
Agrico Triple Super Phosphate 0-46-0		45.8	
C. P. S. Potash 0-0-60			59.0 *
CO-OPERATIVE FEDEREE de QUEBEC			
Co-op Fertilizer Ammonium Nitrate 34-0-0	34.6		
DUVAL CORPORATION			
Duval Sul - O - Mag 0-0-22		21.7	
ESTECH, INC.			
Gro-Tone Bone Meal 0-12-0		21.54	
Gro-Tone Bone Meal 0-12-0		21.40	
FARM BUREAU CO.			
Fabu-Gro Plant Food 0-46-0		45.0 *	
Fabu-Gro Plant Food 0-0-60			60.5
FAESY & BESTHOFF, INC.			
F & B Pure Sterilized Bone Meal 4-12-0	4.6	16.96	
INTERNATIONAL MINERAL & CHEMICAL CORP.			
I. M. C. Sul-Po-Mag 0-0-22			21.5
I. M. C. Sulfate of Potash 0-0-50			49.2 *
LEBANON CHEMICAL CORPORATION			
Lebanon Super Phosphate 0-45-0 .		45.9	
MASSACHUSETTS NURSERYMEN'S ASSN.			
MNA Super Phosphate 0-20-0		20.9	
MNA Super Phosphate 0-20-0		21.1	
MNA Super Phosphate 0-20-0		20.7	
MNA Bone Meal 0-20-0		15.95 **	
MNA Bone Meal 0-20-0		16.67 **	
OLD FOX CHEMICAL CO.			
Old Fox Fertilizer 0-0-62			61.9

Nitrogen, Phosphoric Acid, and Potash Products (Cont'd)

Manufacturer & Brand	Total Nitrogen	Available Phosphoric Acid	Water Soluble Potash
SUDBURY LABORATORY, INC.			
Sudbury Nitrogen Tailor Made Fertilizer 44-0-0	45.2		
Sudbury Phosphorus Tailor Made Fertilizer 0-44-0		47.2	
Sudbury Potash Tailor Made Fertilizer 0-0-44			46.0
W/GM HYDRO			
Viking Ship Brand Calcium Nitrate 15.5-0-0	15.5.		

* Within Tolerance

** Deficient

Processed Animal Manures

Manufacturer & Brand	Total Nitrogen	Total Phosphoric Acid	Water Soluble Potash	Moisture
AGWAY, INC.				
Agway Composted Cow Manure 1-1-1	1.10	1.01	1.10	27.0
ANDERSON ORGANIC: DIV. of HYPONEX CORP.				
Fertilife Composted Cow Manure 1-1-1	0.51	0.51	0.37	66.0
HYPONEX CORPORATION				
Hyponex Composted Sheep Manure 1-1-1	0.96	0.90	1.16	35.6
Hyponex Composted Cow Manure 1-1-1	1.05	0.92	1.24	34.6
ROBERT N. MCCLELLAN & SONS				
Bovung Cow Manure 2-1-2	1.18 **	1.1	1.2 **	6.0
MILWAUKEE METROPOLITAN SEWAGE DISTRICT				
Milorganite Activated Sewage Sludge 6-2-0	6.4	2.4		
Milorganite Natural Organic Fert. 6-2-0	6.6	2.4		
Milorganite Activated Sludge 6-2-0	6.5	2.5		
Milorganite Activated Sewage Sludge 6-2-0	6.2	2.5		
Milorganite Activated Sewage Sludge 6-2-0	6.4	2.4		
Milorganite Activated Sewage Sludge 6-2-0	6.4	2.6		
Milorganite Activated Sewage Sludge 6-2-0	6.9	2.4		
Milorganite Activated Sewage Sludge 6-2-0	6.3	2.7		
Milorganite Activated Sewage Sludge 6-2-0	6.1	2.4		
Milorganite Activated Sewage Sludge 6-2-0	6.1	2.8		
OLD FORT INDUSTRIES				
Tilleez Dehydrated Cow Manure 2-1-2	0.71 **	0.77	0.72 **	53.0
SEA HARVEST CO.				
Pisces Compost Plant Food 0.5-2-2	0.48	0.16 **	1.90	48.0
YANKEE FERTILIZER CO.				
Super Gro-Dehydrated Poultry Manure 4-4-2	5.4	4.2	3.0	

Processed Animal Manures (Cont'd)

Manufacturer & Brand	Total Nitrogen	Total Phosphoric Acid	Water Soluble Potash	Moisture
ZOOK & RANCK, INC.				
Zora Fos 0-2-0		2.9		

** Deficient

Massachusetts Department of Food and Agriculture
Bureau of Farm Products

Registrations for calendar year 1985

Feed 46-50
Commercial Fertilizer 51
Specialty Fertilizer 52-55
Limestone 56

1985 FEED

ADM Milling Co., Tax Dept., P.O. Box 1470, Decatur, IL 62525
A & R Pet Food, Co., Inc., 91 Holt St., Buffalo, NY 14206
Agricore Inc., P.O. Box 298, Lebanon, PA 17042
Agway Inc., Box 4751, Syracuse, NY 13221
Agway Inc., Box 4933, Syracuse, NY 13221 - Country Foods
Alfa-Pet Inc., 4914 Draggett Ave, St. Louis, MO 63110
Allied Chemical, P.O. Box 1000R, Morristown, NJ 07960
Allied Chemicals, P.O. Box 6, Salvay, NY
Allied Fibers & Plastics, P.O. Box 1559, Hopewell, VA 23860
Almacs Inc., One Noyes St., East Providence, RI 02916
Alpo Petfoods Inc., P.O. Box 2187, Allentown, PA 18001
American Crystal Sugar Co., 101 No. Third St., Moorhead, MN 56560
American Cyanamid Co., P.O. Box 400, Princeton, NJ 08540
American Feeds & Livestock Co., Inc., RR #6, Box #33, Long Grove, IL 60047
American Hoechst Corp., Agricultural Division, Route 202-206, North Somerville, NJ 08876
American Original Corp., P.O. Box 769, Seaford, Delaware 19973
Amway Corp., 7575 East Fulton Rd, Ada, MI 49355
Anheuser - Busch Raw Material Dept., 1 Busch Place, St. Louis, MO 63118
Anitox Corp., 1855 Anitox Dr., Buford, GA 30518
Arcadian Agricultural Corp., P.O. Box 265, Parsippany, NJ 07054
Archer - Daniels - Midland Co., P.O. Box 1470, Decatur, IL 62525
Arlington Grain Co., 5 Depot Ave, Cranston, RI 02920
Atlantic Feed Products Corp., 286 Secaucus, NJ 07094
Audubon Park Co., 49 Main Street, Drawer W, Akron CO 80720

B & M Farms & Millind Co., 55 N. Sillyman St., Cressona, PA 17929
BASF Wyandotte Corp., 100 Cherry Hill Rd, P.O. Box 181, Parsippany, NJ 07054
Barber & Bennet Inc., Box 430, Port of Albany, Albany NY 12201
Barzen International, P.O. Box 51, Stacey, MN 55079
Baymag Plant, 200 1144-29 Ave., N.E., Calgary, Alberta T2E-7PL
Bay-Mor Pet Feeds, 55 North Sillyman St., Cressona, PA 17929
Bay State Milling Co., 707 Grain Exchange, Minneapolis, MN 55415
Bayvet Div. Miles Labs, P.O. Box 390, Shawnee Mission, KS 66201
Beacon Milling Co., Inc., Cayuga, NY 13034
Beatrice Grocery Products, Inc., 110-21st Avenue South, P.O. Box 58, Nashville, Tn 37202
Beatrice Specialty Pet Products, P.O. Box 170, Nashville, TN 37202
Bernardston Grain Mills, River Street, Bernardston, MA 01337
Best Feeds & Farm Supplies, Rear of Union Ave., P.O. Box "J", Oakdale, PA 15071
Bi - Agri Lebanon, Rte 207, Lebanon, CT 06249
Bio Zyme Enterprises, Inc., 1231 Alabama St., Joseph, MO 64504
Borden Inc., Pet-Agri. Division, RR #1, Box 127, Elgen, IL 60120
Borden, Inc., Pet-Agri. Div., Pet/Vet Products, P.O. Box 396, Hampshire, IL 60140
Blue Star Foods Inc., P.O. Box 798, Council Bluffs, Iowa 51502
Bradford Associates Inc., 191 Post Rd. West, Westport, CT 06880
Bruckmans, 179 So. Broadway, Lawrence, MA 01843
F.M. Brown's & Son, 205 Woodrow Ave., Sinking Spring, PA 19608
Brown Forman Distillers Corp., P.O. Box 1080, Louisville, KY 40201
Bumble Bee Seafoods, 1995 Bayfront, P.O. X-1017, San Diego, CA 92113
By Products, Inc., P.O. Box 7411, Wilmington, Del. 19803

C.S.G. Inc., P.O. Box 5192, Des Moines, IA 50306
Cadillac Pet Foods, 9130 Griffith Morgan Lane, Pennsauken, N.J. 08110
Caldwell Supply Co.,Inc., 1515 Parkway Ave., W. Trenton, NJ 08628

Cal-o Pet Foods, Div. of Borden, Inc., P.O. Box 388, Allentown PA 18105
Cambridge Products LTD, P.O. Box 1622 SSS, Springfield, MO 65805
Cargill Inc., Processing Group, Box 9300, Minneapolis, MN 55440
Cargill, Inc., Willow Grove, PA 19090
Carnation Co., 5045 Wilshire Blvd., Los Angeles, CA 90036
Carl S. Akey Inc., P.O. Box 128, Lewisburg, OH 45338
Carter-Wallace, Inc., Half Acre Rd., P.O. Box 418, Cranbury, NJ 08512
Central Conn. Co-Op Farmers Assoc., Box "V",Buckland Sta.,10 Apel Pl,Manchester,
C.H.B. Foods Inc., 772 Tuna St., Terminal Island, CA 90731
Champion Valley Farms Inc., 6670 Low St., Bloomsburg, PA 17615
Char-Bone Corp., 1157 Willis Ave.,Albertson, NY 11507
Chenango Valley Pet Food, 10 West St., Sherburne, NY 13460
Cher-Ami Natural Pet Foods, Inc., Two East Ave., Larchmont, NY 10538
Church & Dwight Co., P.O. Box 369, Piscataway, NJ 08854
Clinton Corn Processing, Box 340, Clinton, IA 52732
The Coca-Cola Co., P.O. Box 2079, Houston, TX 77001, Attn. J.N. Touchstone
Comcor Inc., %Health Science Ind., 200 Executive Dr., Brookfield, WI 53005
Commercial Rabbit Growers Assoc. of Mass., Gore Rd., Upton, MA 01568
Con-Agra Pet Foods Division, 6th & Elm St., P.O. Box 938, Rolla, MO 65401
Con-Agra Inc., Grain Milled Invoicing, One Central Park Plaza, Omaha, NE 68102
Con-Agra Inc., Specialty Feed Products Co., 876 Grain Exchange Bldg..,
Minneapolis, MN 55416
Conklin Co. Inc., 4660 West 77th St., Minneapolis, MN 55435
Continental Grain Co., 277 Park Ave, New York, NY 10172
Continental Grain Co., P.O. Box 459, Libertyville, Il 60048
Corenco Corp., 525 Waburn St., Tewksbury, MA 01876
Corn Products (CPC Int. Inc.) Int'l Plaza, Englewood Cliffs, NJ 07632
Corn Sweeteners, Div. ADM Tax Dept. P.O. Box 1470, Decatur, Il 62525
Cyanamical Agricultural de Puerto Rico Inc., % M. Martin, P.O. Box 400,Princeton, NJ 08540
Cyto-Zyme Labs, 134 south 700 West, Salt Lake City, Utah 84104

D&D Suet Cake Co., Division of Health, 140 Mill St., Coopersville, MI 49404
Dawe's Laboratories, LTD, 7100 North Tripp Ave., Chicago, IL 60646
Deep Run Packing Co. Inc., Deep Run Rd., Box 247, Dublin, PA 18917
Derby Feed, Co. Inc., 4-8 Caroline St., Derby, CT 06418
Diagnostic Data Inc., 518 Logue Ave., Mountain View, CA 94043
Diamond Shamrock Corp., 1100 Superior Ave., Cleveland, OH 44114 Name chge SDS Biotech
Diamond V. Mills, Inc., P.O. Box 4408, Cedar Rapids, IA 52407
Doane Products Co., Staff Supermarkets Assoc., P.O. Box 879, Joplin, MO 64802
Docktors Laboratories Inc., Dundee Park, Andover, MA 01810
Dog Gon' Good Pet Food Co., Division Old Mother Hubbard, 80 Rogers St., Lowell, MA 01853
Domain Inc., 201 N. Knowles Ave., P.O. Box 248, New Richmond, WI 54017
The Dow Chemical Co., 2030 Dow Center, U.S. Tax Dept, Midland, MI 48640
E.I. DuPont DeNemours & Co., 705 DuPont Bldg., Wilimington, DE 19898, Attn: J.J. Trexel

Early Times Distillery Co., P.O. Box 1105, Louisville, KY 40201
Eastman Gelatin Corp., 227 Washington St., Peabody, MA 01960
Eastman Chemicals Div., P.O. Box 511, Kingsport, TN 37662
Eight-In-One Pet Food Prod. Inc., 100 Emjay Blvd., Brentwood, NY 11717
Elanco Products Co., 740 S. Alamba St., Indianapolis, IN 46285
Essential Minerals Inc., P.O. Box 619, Franklin, MI 48025
Evanger's Dog & Cat Food Co., Inc., 221 Wheeling Rd., Wheeling, IL 60090
Evans Milling Co., Inc., 1730 W. Michigan St., Indianapolis, IN 46222
John Ewing Co., 401 No. First St., LaSalle, CO 80645

FMC Industrial Chemical Group Corporation, 2000 Market St., Philadelphia, PA 191
Farmer City Grain Co., P.O. Box 189, 201 W. North St., Farmer City, IL 61842
Fast Fractions for Purses, Inc., P.O. Box 383, Randallstown, MD 21133
Fermented Products Inc., 905 So. Carolina Ave., Mason City, IA 50401
Flory Milling Canning Co., Staff Supermarkets, Railroad Ave., Farmingdale, NJ 07
Food Center, 312 Boston Road, N. Billerica, MA 01862
The R.T. French Co., One Mustard St., P.O. Box 23450, Rochester, NY 14692

General Foods Corp. Pkg Conven. Div., 275 Cliff St., Battles Creek, MI 49016
Gaines Professional Services, 250 North St., White Plains NY 10625, Attn: Rose C
General Mills Inc., P.O. Box 15003, Minneapolis, MN 55415
Roy Goff & Co., Inc., P.O. Box 6248, Bridgeport, CT 06606
Grain Processing Corp., 1600 oregon St., Muscatine, IA 52761
Great A&P Tea Co., Inc., %Perk Foods Co., 772 Tuna St., Terminal Island, CA 9073
Green Acre Farms, 112 South Spruce St., Nazareth, PA 18064
Gro-Kote Inc., 4019 Sebastopol Rd., Santa Rosa, CA 95401

Rolf C. Hagen, USA Corp., 50 Hampden Rd., Mansfield, MA 02048
HAP-EE Pet Food, 150 Reservoir Rd., Wollaston, MA 02170
The Chas. C. Hart Seed Co., 304 Main St., P.O. Box 9169, Weathersfield, CT 0610
Hartz Mountain Pet Foods, 700 South Forth St., Harrison, NJ 07029
Harvest States Cooperative, P.o. Box 43594, St. Paul, MN 55164
Heger Co., 2562 7th Ave. E., No. St. Paul, MN 55109
Heinold Feeds Inc., P.O. Box 377, 207 E. Mentor St., Kouts, IN 46347
Hi-Life Packing Co., P.O. Box 218, Rte. M-40, Hamilton, MI 49419
Hi-Lif Packing Co., Box 1167, Elmhurst, IL 60126
Hill's Pet Products, P.O. Box 148, Topeka, KS 66601
Hoffman La Roche Inc., 340 Kingsland St., Bldg. 706, Nutley, NJ 07110
Hubbard Milling Co., 424 North Front St., Mankato, MN 56001
Hubinger Co., One Progress St., Keokuk, IA 52632

IBA Inc., Animal Health Div., 27 Providence Road, Millbury, MA 01527
IAMS Company, P.O. Box 862, Lewisburg, OH 45338
Illinois Cereal Mills, P.O. Box 220, 620 So. Jefferson Ave., Paris, IL 61944
Immuno Dynamics of Iowa, Intersection Hwys 141 & 169, P.O. Box 544, Perry, IA 50220
Impro Products Inc., 3 Allamakee St., Waukon, IA 52172
International Bakerage, 3300 Northeast Expressway, Suite 1-M, Atlanta, GA 30341
International Minerals & Chemical Corp., 1331 So. 1st, P.O. Box 207, Terre Haute, IN 478
International Multifoods, Box 2942, Multifoods Tower, Minneapolis, MN 55402
International Salt Co., Clarks Summit, PA 18411
International Spike Inc., 817 E. Third St., Lexington, KY 40505
International Stock Food Corp., P.O. Box 29, 533 Broad St., Waverly, N.Y. 14892

Jiffy Products of America, Inc., 1400 Harvester Rd., P.O. Box 338, W. Chicago, IL 60185
I.S. Joseph Co., Inc., 777 Grain Exchange Bldg., Minneapolis, MN 55415
Jespy, Inc., 200 E. Rosedale Ave., W. Chester, PA 1938
Howard Johnson's Enterprises, Inc., P.O. Box 67, Viroqua, WI 54665
Joy's Import & Export, P.O. Box 1055, Boston, MA 02205

K & L Feed Mill Corp., Box 52, Route 32, Franklin, CT 06254
Kal Kan Foods Inc., 3386 East 44th St., Vernon, CA 90058
Kaytee Products Inc., 242 E. Grand St., Chilton, WI 53014
Kellogg Inc., 322 E. Florida St., Milwaukee, WI 53201
King Neptune Sales Corp., 12 Water St., Suite 401, White Plains, NY 10601
Kitty Food Corp. (Hilton Seafood) 1437 Elliott Ave., W. Seattle, WA 98119

Lacrosse Milling Co., Div. of Tereson Co., P.O. Drawer "J", Cochrane, WI 54622
Laddie Boy Pet Foods, Inc., P.O. Box 761, Fort Lee, NJ 07024
Lambert Kay, P.O. Box 418, Half Acre Rd., Cranbury, N.J. 08512
Land O'Lakes Inc., Agricultural Services, 2827 8th Ave. So., Fort Dodge, Iowa 50
Landon Co., Inc., Box 457, Delavan, WI 53115
Lauhoff Grain Co., P.O. Box 571, Danville, IL 61832
Libner Corp., 25 Commerce St., Norwalk, CT 06852
Lipman Marine Products Inc., P.O. Box 779, Gloucester, MA 01930
Lofts Seed Inc., 1 Chimney Rock Rd., P.O. Box 146, Bound Brook, NJ 08805
Liv-A-Snaps, 4251 Fernwood St., Arden Hills, St. Paul, MN 55112

Maine Manna Inc., Gorham, ME 04038
Maple Leaf Mills Co., Inc. Export Flour Div., 43 Junction Rd., Toronto, Ontario
Marlboro Products, % Peck Foods, 772 Tuns St., Terminal Island, CA 90731
Marnat Packing Co, P.O. Box 827, Bennettsville, SC 29512
Martin Maritta Basic Products, Executive Plaza, Hunt Valley, MD 21030
Martins Feed Mills Inc., Box 46, New Paris, ID 46553
Marschall Products, Miles Labs, P.O. Box 592, Madison, WI 53701
Mass. Canning Corp., Rte. 44, Harding St., Lakeville, MA 02346
Menu Foods, LTD, 8 Falconer Dr., Streetsville, Ontario L5M2C1 Canada
Merck & Co. Inc., P.O. Box 2000, Attn. R.R. Buck, Rahway, NJ 07065
Metaframe Corp., 231 40th St., Irvington, NJ 07111
Midstates Pet Corp., 18440 C.R. 42, Goshen, IN 46526
Milk Specialties Co., P.O. Box 278, Water & Illionois Sts., Dundee, IL 60118
Miner-ol Co. Inc., So. Water St., Warsaw, IL 62379
Monitor Sugar, Inc., 2600 So. Euclid, Bay City, MI 48706
Morton Salt Co., 110 N. Wacker Dr., Chicago, IL 60606
Mowat, Wilson & Co., Box 5171, Seven Oakes Station, Detroit, MI 48235
Moyer & Son Inc., 113 E. Reliance Rd., Box 117, Souderton, PA 18964

Nabisco Brands Inc., East Hanover, NJ 07936
Nabisco Inc., Toledo Flour Mill, 2221 Front St., Toledo, OH 43605
Namolco Inc., Willow Grove, PA 19090
Naremco Inc., Box 1572 SSS, Springfield, MO 65805
National Distillers Products Co., 120 Section Rd., Cincinnati, OH 45216
National Feeds of New England, P.O. Box 791, Merrimack, NH 03054
National Oats Co., 1515 H Ave N.E., Cedar Rapids, IA 52402
National Starch & Chem. Corp., 1515 So. Drover St., Indianapolis, IN 46221
New Energy Co. of Indiana, 3201 W. Clavert St., P.O. Box 2289, So. Bend, IN 46680-2289
New England Serum Co., 239 Hewburyport Tpke, (RT 1), Topsfield, MA 01983
Nor-Am Chmical Co., 3509 Silverside Rd., P.O. Box 7495, Wilmington, Del. 19803
Northrop King Co., Linda Lipsey, P.O. Box 959, Minneapolis, MN 55440

Occidental Chemical Co., Feed Prod. Div., 1122 East Highway 131, Jeffersonville, IN 47130 P.B. Ohrstrom & Sons Inc., P.O. Box 964, Arlington Heights, IL 60006
Old Fox Chemical Inc., 94 Dexter Rd., E. Providence, RI 02914
Old Mother Hubbard Dog Food Co. Inc., 80 Rogers St., P.O. Box 1411, Lowell, MA 01853
OMYA, Inc., P.O. Box 3, Florence, VT 05744
Oyster Shell Products, P.O. Box 1225, Mobile, Al 36601

Pabst Brewing Co., 1000 No. Market St., Milwaukee, WI 53201
Pacific Molasses Co., One California St., San Francisco, CA 94111
Pacific Molasses Co., 333 Market St., Suite 1000, San Francisco, CA 94105
Paterson Tallow Co., Inc., P.O. Box 287, Jersey City, NJ 07303
Pekin Energy Co., P.O. Box 10, 1300 S. Second, Pekin, IL 61554
Perk Foods Co., 772 Tuna St., Terminal Island, CA 90731

Piasa Pet Products, Inc. P.O. Box 938, Rolla, MO 65401
Pillsbury Co., Pillsbury Center 3526, Minneapolis, MN 55402
Pioneer Hi-Bred International Inc., 1206 Mulberry St., Des Moines, IA 50308
Pro-Ag-Inc., 2072 East Center Circle, Minneapolis, MN 55441
Pro-Pet, 218 E. Main St., Newark, DE 19711
Preston Kitchens, 1 Choptank Rd., P.O. Box 70, Preston, MD 21655
Provimi Inc., 99 Bartley Rd., Flanders, NJ 07836
Purina Mills, Inc., 8355 Eighth St., St. Louis, MO 63102

The Quaker Oats Co., 345 Merchandise Mart Plaza, Chicago, IL 60654

Ralston Purina Co., Checkerboard Sq., St. Louis, MO 63164
Redi Industries Corp., 301 Peninsula Blvd, Hempstead, NY 11550
Reward Co. Inc., P.O. Box 12548, El Paso, TX 79912
A.H. Robins Co. Inc., 1405 Cummings Dr., Richmond, VA 23220
Rockford Farms, P.O. Box 4000, Chicago, IL 60654
Rytman Grain Co., RFD #1, Lebanon, CT 06249

San Francisco Bay Brand Co., 8239 Enterprise Dr., Newark, CA 94560
SDS Biotech Corp., 7528 Auburn Road, P.O. Box 348, Painesville, OH 44077
Seaboard Allied Milling Corp., P.O. Box 2969, Shawnee Mission, KS 66201
Seaboard Seed Co., P.O. Box 117, Bristol, IL 60512
Joseph E. Seagram & Sons Inc., 508 West High St., Lawrenceburg, IN 47025
Schenley Distillers, 36 E. Fourth St., Cincinatti, OH 45202
Schenley Distillers, Inc., 12770 Merit Dr., Suite 600, Dallas, TX 75251
Scottie Pet Food Co., 80 Rogers St., Lowell, MA 01853
Shafer Seed Co., Oakes, No. Dakota 58474
Shawvan International Ltd, 310 Huehl Road, Northbrook, IL 60062
J.R. Short Milling Co., P.O. Box 866, Kankakee, IL 60901
Silopress Manufacturing Co., 1915 Floyd Blvd., Sioux City, Iowa 51102
Slentz-McAllaster Inc., P.O. Box 38, Lewis, KS 67552
Sohio Chemical Co., P.O. Box 628, Lima, OH 45802
Source, Inc., 101 Fowler Rd., No. Branford, CT 06471
South Point Ethanal, Old Rte. 52, P.O. Box 1004, South Point, OH 45680
Southern Cotton Oil Co., P.O.BOx 1470, Decauter, IL 62525
Southern of Darlington Co., 383 Washington St., P.O. Box 70, Darlington, SC 295
Southern of Rocky Mount Inc., 600 Wilkinston St., P.O. Box 109, Rocky Mount, NC
Springfield Sugar & NE Grocers, Railroad Ave., Farmingdale, NJ 07727
John P. Spuria & Sons, 1 Gardner Rd., So. Ashburnham, MA 01466
A.E. Staley Mfg. Co., 2200 East Eldorado St., Decatur, IL 62525
Standard Milling Co., 1009 Central St., Kansas City, MO 64105
Stanford Seed Co., P.O. Box 366, 560 Fulton St., Buffalo, NY 14240
Star-Kist Foods Inc., 582 Tuna St., Terminal Island, CA 90731
Star Market Co., 625 Mt. Auburn St., Box 293, Cambridge, MA 02138
Stop & Shop Supermarkets, % Perk Foods, 772 Tuna St., Terminal Island, CA 90731
Strongheart Products Co., Div. of Doric Corp., P.O. Box 2009, Kansas City, KS 6
Sunflower Inc., P.O. Box 169, Grandin, ND 58038
Sunshine Feed Mills, P.O. Box Drawer "S", Red Bay, AL 35582
Superbowl Pet Foods Inc., 57-18 48th St., P.O. Box 86, Maspeth, NY 11378
Superior Pet Products, 470 Atlantic Ave., Boston, MA 02210
Sure Crop International, P.O. Box 179, New City, N.Y. 10956
Spencer Kellogg, Div. Textron Inc., 120 Delaware Ave., Buffalo, NY 14240
Stinson Canning Co., 66 Bowery St., Bath, ME 04530
Sweet Life Prod.% N.E. Grocer Supply, 175 Bearfoot Rd, Northboro, MA 01532

Topco Assoc, Inc., 7711 Gross Point Rd., Skokie, IL 60077
Tenneco Minerals, A Tenneco Co., 3707 FM W. Suite, Houston, TX 77068

Tetra Sales(USA),Div.of Warner Lambert Co.,201 Tabor Rd.,Morris Plains, N.J.07950
Texknit Service & Supply Corp., Pleasant Dr., Lockmere, N.H. 03252
Tri-Mutual Inc., 8500 Pillsbury Ave S., Minneapolis, MN 55420
Triumph Pet Industries, P.O. Box 100, Hillburn, NY 10931
Troy Chemical, Div. Y-Tex Corp., P.O. Box 1450, 1825 Big Horn Rd., Cody, WY 82414

United Cooperative Farmers Inc., 339 Broad St., Fitchburg, MA 01420
Universal Grain Co. of N.J., 425 South Street, Newark, NJ 07105
Upjohn Company, 9691-190-43, Kalamazoo, MI 49001

Ventura Grain Co., 148 Longmeadow Road, Taunton, MA 02780
Veterinary Nutritinal Assoc. 229 Wall St., Huntington, N.Y. 11743
Vet Med Health Products, Inc., P.O. Box 5298, W. Bloomfield, MI 48033-9298
Vigortone AC Products, Div. Beatrice Foods, P.O. Box 1230, Cedar Rapids, IA 5240
Vital Nutrition Products, Inc., 25 Laurel Rd., Rocky Hill, CT 06067

WGM-Hydro, 270 Lawrence Ave., South San Francisco, CA 94080
Wagner Bros. Feed Corp., P.O. Box 26, Farmingdale, NJ 11735
Wakefern Food Corp., 600 York st., Elizabeth, NJ 07208
Wardley Products Co. Inc., One Aquarium Dr., P.O. Box 2515, Secaucus, NJ 07094
Wayne Feed Div., Continental Grain, P.O. Box 459, Libertyville, IL 60048
H.K. Webster Co., Inc., P.O. Box 8, Lawrence, MA 01842
Wells Pet Food Corp., 617 South D St., Monmouth, IL 61462
Ross-Wells P.O. Box 426, Mequon, WI 53092
Wilson's Corn Products Inc., Rochester, IN 46975
Wisconsin Brand, Inc., Rte 2, Box 214-B, Iola, WI 54945

Zapata Haynie Corp., P.O. Box 4240, Houston, TX 77210

1985 Commercial Fertilizer Registrations

Affordable Products, Inc., P.O. Box 2297, Green Bay, WI 54306
Agway, Inc., P.O. Box 4741, Syracuse, NY 13221
Agriturf, Inc.P.O. Box 143, So. Deerfield, MA 01373
Allied Chemicals Corp., P.O. Box 1000R, Morristown, NJ 07960
Allied Fibers & Plastic Co., P.O. Box 1559, Hopewell, VA 23860
Alpha Sales Co., 388 Evans Street., Williamsville, N.Y. 14221
Arcadian Corp., P.O. Box 265, Parsipanny, NJ 07054
Atlantic Cement Co., Inc., P.O. Box 3, Ravena, NY 12143
Central N.E. Chemical Corp., P.O. Box 918, Hagarstown, MD 21741
CF Industries, Inc., Salem Lake Drive, Long Grove, IL 60047
Chemagron Industries, P.O. Box 4767, Chicago, IL 60680
Chevron Chemical Co., 940 Hensley St., Richmond, CA 94804
Chilean Nitrate Sales Corp., One World Center, Suite 5151, New York, N.Y. 10048
Continental Shelf, Pleasant Dr., Lockmere, NH 03252
Crop Productions Services Inc., Box 7013, Wilmington, DE 19803
C.S.I. Chemical Corp., P.O. Box 39, Boundurant, IA 50035
Cytozyme Laboratories, Inc., 134 South 700 West, Salt Lake City, Utah 84104
Estech General Chemical Corp., P.O. Box 233, Portland, CT 06480
Farm Bureau, 115 Washington Ave., P.O. Box 227, Soundertown, PA 18964
Gardinier Inc., P.O. Box 3269, Tampa, FL 33601
Golden Harvests Agric. Services, Walnut Street, St. Albans, VT 05478
Green Mountain Fert., P.O. Box 156, Milton, VT 05468
Int'l Minerals & Chem. Corp., 421 East Hawley, Mundelein, Ill 60060
J.I. Holcomb Mfg. Co., 4415 Euclid Ave., Cleveland, OH 44103
Lebanon Chemical Corp., P.O. Box 180,Lebanon, PA 17042
Leffingwell Chemical Co., 111 So. Berry St., Brea, CA 92621
John D. Lyon Inc., 143 Alewife Brook Parkway, Cambridge, MA 02140
Na-Churs Plant Food, 421 Leader St., Marion, OH 43302
Occidental Chem. Agri. Products, 5404 Cypress Center Dr., Suite 210, Tampa, FL 33609
Old Fox Chemical Co., 94 Dexter Road, East Providence, R.I. 02914
Sun Phosphate Co., P.O. Box 369, Dunnellon, FL 32630
John Wojtowicz, Inc., 56 Plant Road, Clifton Park, N.Y. 12065

Fertilizer & Tonnage for 1985

ASB (Canada) LTD, Pointe Sapin, Kent CO., N.B., Canada EOA 2AO
Ancient Age Distilling Co., Leestown Road, Frankfort, KY 40601
Agway Inc.,Box 4933 Syracuse, N.Y. 13221
Agway Inc., 26 Central St., W. Springfield, MA 01089
Agrico Chemical Co., Box 7013, Wilmington DE 19803 (Name chge Crop Productions)
Agrico Chemical Co., P.O. Box 3166, Tulsa, OK 74101
Agri Turf Inc., 124 Elm St., P.O. Box 143, So. Deerfield, Ma. 01373
Agro-Chem. Inc., 11150 W. Addison St., Franklin Park, IL 60131
Alaska Fish Fertilizer Co., P.O. Box 757, Renton, WA 98057
AllJack & Co., 423 Amelia St., Plymouth, MI, 48170
Allied Corp. Chemicals Co., P.O. Box 2251R, Morristown, N.J. 07960
Allied Fibers & Plastics, P.O. Box 1559, Hoepwell, VA 23860
Amax Chemical Corp., 402 So. Kentucky Ave, Suite 600, Lakeland, FL 33801
American Cyanamid Co., P.O. Box 400, Princeton, N.J. 08540
American Cyanamid Co., Plant Food Div., One Cyanamid Plaza, Wayne, NJ 07470
American Hoechst Corp., Rte. 202-206 North, Somerville, N.J. 08876
American Pelletizing Corp., Box 3628, 7200 Hickman Rd., Des Moines,IA 50322
Amway Corp., 7575 East Fulton Rd., Ada, MI 49355
Anderson's, The, P.O. Box 119, Maumee, OH 43537
Anderson Peat Organic (Old Fort Ind.) Inc., 2013 S. Anthony Blvd., Ft. Wayne, IN 46801
Aquarium Pharmaceuticals Inc., 113 N. 7th St., Perkasie, PA 18944
Arcadian Agricultural Corp., P.O. Box 265, Parsippany, NJ 07054
Arex Corp, P.O. 2571, 1301 Dothan Rd., Bainbridge, GA 31717
Atlas Fish Fertilizer Co., 865 Lind Ave S.W., Renton, WA. 98055

B.F.C. Chemicals, 4311 Lancaster Pike, P.O. Box 2867, Wilmington, DE 19805
name chge NOR-AM
J.T. Baker Chemical, 222 Red School Lane, Phillipsburg, N.J. 08865
F.A. Bartlett Tree Experts Co., P.O. Box 3067, Ridgeway Sta., Stamford, CT 06905
Bendien B.V., Thierensweg 10, 1411 Ex Naarden, Netherlands
Bio-Gen Int'l Inc., 2946 East 39th St., Rapid City, SD 57701
Black Leaf Products Co., 667 N. State St., Elgin, Il 60120
Britt Tech. Corp., P.O. Box 216, Britt, IA 50423

C.F. Industries, Salem Lake Drive, Long Grove, IL 52576
CIL Inc., P.O. Box 1900, Courtright, Ontairo L8G 321
Caldwell & Jones,Inc., 46 Adams St., Manchester, CT 06040
Chacon Chemical Corp., 2600 Yates Ave., City of Commerce, CA 90040
Central N.E. Chemical, P.O. Box 918, Hagerstown, MD 21741
Chemlawn Corp., P.O. Box 397, Wickford, R.I. 02852
Chevron Chemical Co., 940 Hensley St., Richmond, CA 94804
Chilean Nitrate Sales Corp., 109 E Main St., Suite 500, Norfolk, VA 23510
CIBA-GEIGY Corp., Agri. Div., P.O. Box 11422, Greensboro, N.C. 27419
Cleveland Gypsum Co., 2100 W. 3rd, Cleveland, OH 44113
Clinton Nursery Products, Inc., P.O. Box 932,114 W. Main St., Clinton, CT 06413
Conklin Co. Inc., 4660 W. 77th St., Minneapolis, MN 55435
Conrad Fafard, Inc., P.O. Box 3033, Springfield, Ma. 01101
Crawford Garden Supplies, 589 Atwells Ave, Providence, R.I. 02909
Crop Production Services, Box 7013, Wilmington, DE 19803
Cytozyme Lab Inc., 134 South 700 West, Salt Lake City, Utah 84104

D.H. & R. Co., Inc. P.O. Box 333, LaPorte, IN 46350
Davey Tree Expert Co., The, 117 S. Water St., Kent, OH 44240
Domestic Fertilizer, 1750 17th St., Paris, KY 40361
Dow Chemical Co.,US Area Tax, 2030 Dow Ctr, Midland, MI 48640
Dragon Chemical Corp., 7033 Walrond Dr.NW, P.O. Box 7311, Roanoke, VA 24019

Eagle Picher Ind., Inc., Box 648, Fairway, Neb. 68352
Eagle Picher Inc., Hwy 80 West, P.O. Drawer 629, Mineola, Tx 75773
Earthgro, Inc., Rte 207, P.O. Box 143, Lebanon, CT 06249
Emerald Green, Inc., P.O. Box G, Milford, Ohio 45150
Emerald Isle LTD, 2153 Newport Rd., Arbor, MI 48103
Enzy-Tech, Inc., 1135 Kansas Ave., Modesto, CA 95351
Epsoma Co., The, 6 Espoma Rd., Millville, N.J. 08332
Estech Inc., P.O. Box 233, Portland, CT. 06480
Estech Inc., 340 Interstate N. Pkwy, Suite 150, Atlanta, GA 30339

Farm Bureau, 115 Washington Ave, P.O. Box 227, Souderton, PA 18964
Fertrell Co., P.O. Box 265, Bainbridge, PA 17502
Faesy & Besthoff Inc., 143 River Rd., Edgewater, N.J. 07020
Fer-Mel Corp., 304 Main St., Wethersfield, CT 06109
(Four) All Green Co., Box 501, Bricktown, N.J. 08723
Fisons Western Corp., 1200-805 W. Broadway, Vancouver, BC V5Z 1K1

Gardena, Inc., 6031 Culligan Way, Minnetonka, MN 55345
Gardinier Inc., P.O. Box 3269, Tampa, FL 33601
Glorion Corp., 366 No. Broadway, Jericho, NY 11753
Goldmar Corp.,P.O. 27074,180 W. Ostend St., Baltimore, MD 21230
Golden Harvest Agric. Serv., Walnut St., St. Albans, VT 05478
W.R. Grace & Co., Terra Lite Products, 62 Whittemore Ave., Cambridge, Ma. 02140
Green Mountai Fertilizer Inc., P.O. Box 156, Sunset Ave., Milton, VT 05468
Greenlife Products Co.Inc., P.O. Box 72, West Point, VA. 23181
Grow Consumer Products, Inc., 1354 Old Post Rd., Havre de Grace, MD 21078
Grow-Flourish Inc., Hardwick, VT. 05843

Hadley & Bennett Inc., P.O. Box 517, Bridge St., Henniker, NH 03242
Chas. C. Hart Seed Co., P.O. Box 169, Wethersfield, CT 06109
A.H. Hoffman, Inc., Landisvillie, PA 17538
Holland Bulb Prod., P.O. Box 540, Sylacaduga, AL 35150
Hyponex Co. Inc., P.O. Box 4300, Copley, Ohio 44321
Hy-Trous Crop, 3 Green St., Woburn, MA 01801

International Spike Inc., 817 E. Third St., Lexington, KY 40592

JPA (Jiffy Products of America), 1400 Harvester Rd., P.O. Box 338, W. Chicago,IL 60185
Howard Johnson's Enterprises, Railroad Ave., P.O. Box 67, Viroqua, WI 54665
Jungle Growth Products Inc., 2805 Columbia St., Torrance, CA 90503

Kenco Chemical & Mfg. Corp., P.O. Box 6246, Jacksonville, FL 32236
Kerr-McGee Chemical Corp., Kerr-McGee Center, 135/1126, Oklahoma, OK 73125
K-Mart Corp.% Rockwell Chemical Co., P.O. Box 809, W. Caldwell, N.J. 07006
K-Mart Corp., 3100 W. Big Beaver, Troy, MI 48084
Knox Gelatin Inc., 800 Sylvan Ave., Englewood Cliffs, N.J. 07632
Koos Inc., 4500 13th Court, Kenosha, WI 53140

L & G Agri. Tech Inc., 5 Militia Road, R.D. 1, Whitehouse Station, NJ 08889
Lakeshore Equipment & Supply Co., P.O. Box 16915, 2005 Lake Rd, Rocky River OH 44116
Lebanon Chemical Corp., P.O. Box 180, Lebanon, PA 17042
Leffingwell, 111 So. Berry St., P.O. Box 1880, Brea, CA 92621
Lofts Pedigreed Seed Inc., Chimney Brook Rd., Bound Brook, N.J. 08805
Loncala Phosphate Co., P.O. Box 766, High Springs, Fl 32643
John D. Lyon Inc., 143 Alewife Brook Parkway, Cambridge, Ma 02140

J.J. Mauget Co., P.O. Box 3422, Burbank, CA 91504
Mass Nursery Men's Assoc., 715 Boylston St. Boston, Ma 02116
Mt. Bethel Humus Co., 330 West 58th St., Suite 4L, New York, N.Y. 10019

Merrick Foods, P.O. Box 99, Union Center, WI 53962
Miller Chemical & Fertilizer Corp., P.O. Box 333, Radio Road, Hanover, PA 17331
Milwaukee Metroplitan Sewerage Commission, 735 No. Water St., Milwaukee, WI 53202
Mother Nature's, Box 1055, Avon, CT 06001
Robert N. McClellan & Son's, 2103 Washington St., Assinippi, Ma. 02339

Na-Churs Plant Food Co., 421 Monroe St., Marion, OH 43302
Nassau Garden, Inc., 366 No. Broadway, Jericho, N.Y. 11753
New England Lawn Services, Inc., P.O. Box 338, Main Office, Shrewsbury, MA 01545
New Plant Life Div. NPL Inc., P.O. Box 45, LaPorte, IN 46350
Nitrochem Inc., 2055 Peel St., Suite 800, Montreal, Quebec H3A 1VA
Nor-Am Chemical Co., 4311 Lancaster Pike, Wilmington, DE 19805 - name chge BFC Chem.
Northrup King Co., Lawn & Turf Mktg., P.O. Box 959, Minneapolis, MN 55440
Nutrico Inc., 92 Howard Ave., Bridgeport, CT 06605

J. B. Ogilvie Inc., 1 Greendale Drive, Caledonia, Ontario, NOA1AO
P.B. Ohrstrom & Son's Inc., P.O. Box 964, Arlington Heights, IL 60006
Old Fox Chemical, Inc., 94 Dexter Rd., East Providence, RI 02914
Old Fox Lawn Care,Inc., 94 Dexter Rd., East Providence, RI 02914
Optiflora Inc., 1501 Lischey Ave., P.O. Box 8158, Nashville, TN. 37207

Parker Fertilizer Co., Inc., P.O. Box 540, Sylacauga, AL 35150
Paygro, Inc., 11000 Huntington Rd., So. Charleston, OH 45368
PBI/Gordon Corp., P.O. Box 4090, 1217 West 12th St., Kansas City, MO 64101
Pecos Agricultural Corp., P.O. Box 1712, Pecos, TX 79772
Peters Fertilizer Prod., W.R. Grace Co., 570 Grant Way, Fogelsville, PA 18051
Plantabbs Corp., P.O. Box 397, Timonium, MD 21093
Plantco Inc., 314 Orenda Rd., Bramalea, Ontario, Canada L6T 1G1
Plant Marvel Labs, Inc., 371 E. 16th St., Chicago Heights, IL 60411
Plant Research Labs, 2525 Dupont Dr., P.O. Box 18498, Irvine, CA 92713
Pro-Lawn Products Inc., Attn: Henry Plate, Box 4908, Syracuse, N.Y. 13221

Quaker Oats Co., The, Merchandise Mart Plaza, Chicago, IL 60654

RTO Plus Corp. P.O. Box 986, Roswell, GA 30077
Ra-Pid-Gro Corp., 88 Ossian St., P.O. Box 370, Dansville, N.Y. 14437
R.G.B. Laboratories, Inc., 1531 Charlotte St., Kansas City, MO 64108-1580
Rhone-Poulenc Inc., Agrochemical Div., 3500 DePauw Blvd., Suite 1031, Indianapolis, IN 46268
Ringer Corp., 6860 Flying Cloud Dr., Eden Prairie,MN 55344
Rockland Chemical Co., Inc. P.O. Box 809, W. Caldwell, N.J. 07006
P.L. Rohrer & Bros., Inc., P.O. Box 25, Smoketown, PA 17576
Ross Daniels, Inc., 1720 Fuller Rd., P.O. Box 65430, West Des Moines, IA 50265

S & D Products, Imc., P.O. Box 66, Prairie du Chien, WI 53821
Safer Agro Chem., P.O. Box 649, Jamul, CA 92035
Schultz Co., 11730 Northline Ind. Drive, Maryland Hts., MO 63043
O.M. Scott & Son's Co., Marysville, OH 43041
Sea Harvest Co., 47 Winston Grove, Toronto, Ont. M8Y-2L1
Sears, Roebuck & Co., Dept. 632-71, Sears Tower, 20th fl. Chicago, IL 60684
Sierra Chemical Co., 1001 Yosemite Dr., Milpitas, CA 95035
Sohio Chemical Co., P.O. Box 628, Lima, Ohio 45802
Southern Importers, Inc., P.O. Box 8579, Greensboro, NC 27419
Stern's Nurseries, Inc., 607 W.Washington St., Geneva, NY 14456
Stim-U-Plant, Inc., 2077 Parkwood Ave., Columbus, OH 43219
Sudbury Labs, Inc., 6 October Hill Rd., Holliston, Ma 01746
Synthetic Labs, Victory Lane, P.O. Box 460, Dracut, MA 01826

Terminal Sales Corp., 12871 Eaton Ave., Detroit, MI 48227
Tetra Sales Div., Warren Lambert, 201 Tabor Rd., Morris Plains, NJ 07950

Tupperware Home Parties, Div. of Dart Ind., P.O. Box 2353, Orlando Fl 32802 T.
Transnitro, 4511 No. Himes Ave. Tampa ,FL 33614
Tuckahoe Lawn Care Inc., P.O. Box H, 21 University Rd., Canton, MA 02021
Turf Specialty Inc., 84 Merrimac St., Hookset, N.H. 03106

Unique Fertilizers, Inc., P.O. Box 99, Deptford, N.J. 08096
Universal Chemical Corp., P.O. Box 341, West Lynn, Ma 01905
USS Agri-Chemicals, P.O. Box 2545, Altanta, GA 30301
U.S. Gypsum Chemical, 101 So. Wacker Drive, Chicago, IL 60606

Valley Enterprises, 6970 Sylmar Ct., Dayton, OH 45424

WGM/HDRO, 270 Lawrence Ave., So. San Fransico, CA 94080
Warren's Turf Nursery Inc., 7502 So, Main St., Crystal Lake, IL 60014
Weaver's Lawn & Garden Prod., Inc., Box 333, Bowling Green OH 43402
Wintercare Horticultural Products Inc., P.O. Box 195 Oyster Bay, N.Y. 11771
Woolfolk Chemical Works, Inc., P.O. Box 938, Fort Valley, GA 31030
John Wojtowicz, Inc. 56 Plant Rd., Clifton Park, N.Y. 12065

Yankee Fertilizer Co., P.O. Box 196 , Melrose, Ma 02176

Zook and Ranck, Inc., RD 1, Box 243, Gap, PA 17527

1985 LIME REGISTRATIONS

Agway Inc., Box 4741, Syracuse, NY 13221

Allyndale Corp., Allyndale Rd., E. Canaan, CT 06024

American Pelletizing Corp., Box 3628, Des Moines, Iowa 50322

Atlantic Cement Co., Inc., P.O. Box 3, Ravena, NY 12143

The J.E. Baker Co., P.O. Box 1189, York, PA 17405

Basins Inc., Box 96, Gouverneur, NY 13642

Cianbro Corp. Old Rte 17, Union, ME 04862

Conklin Limestone Co, Sand Rd., Canaan, CT 06018

Essential Minerals, Inc., 30400 Telegraph Rd., Suite 308, Birmingham, MI 48010

Faesy & Bestoff Inc., 143 river Rd., Edgewater, NJ 07020

Goulet Trucking inc., 27 S. Maple St., Hadley, MA 01035

A.H. Hoffman, Inc., Landisville, PA 17538

Lee Lime Corp., Quarry Rd., Lee, MA 01238

Leffingwell Chemical Co., 111 So. Berry St., Brea, CA 92621

Lime Products Corp., P.O. Box 357, Union, ME 04862

Limestone Products Corp. of Amer., P.O. Box 217, Sparta, NJ 07871

N.E. Silica Inc., 1370 John Fitch Blvd., So. Windsor, CT 06074

North Country Aggregate, P.O. Box 96, Gouverneur, NY 13642

Omya Inc., P.O. Box 3, Florence, VT 05744

Pfizer Inc., Minerals, Pigments & Metals Div., 260 Columbia St., Adams, MA 01220

United States Gypsum Co., 101 So. Wacker Dr., Chicago, IL 60606